

PANJAB UNIVERSITY CHANDIGARH



(Established under the Panjab University Act VII of 1947
- Enacted by the Government of India)

PROSPECTUS

PULEET-2020

ENTRANCE TEST TO BE HELD ON

18-10-2020 (Sunday)

01:00 p.m. To 02: 40 p.m.

For Admission to:

- 1. Institutes governed by the Reservation Rules of Panjab University, Chandigarh**
 - University Institute of Engineering & Technology, Chandigarh.
 - Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Chandigarh.
 - University Institute of Engineering & Technology, Panjab University Swami Sarvanand Giri, Regional Centre, Hoshiarpur.
- 2. Institutes governed by the Reservation rules of Chandigarh Administration**
 - Chandigarh College of Engineering & Technology (Degree Wing), Sector 26, Chandigarh.

Last date for submission of information on the website to generate the Bank Challan: 01-10-2020 (Thursday)

Website: <http://puleet.puchd.ac.in>

FEE (Non-refundable):

General Category Rs. 2175/-
SC/ST/PwD Category Rs. 1088/-

PANJAB UNIVERSITY ANTHEM

तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे मन में तेरा आदर मान और मोहब्बत सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे तू है अपना भविष्य विधाता पंख बिना परवाज़ सिखाता जीवन पुस्तक रोज़ पढ़ा कर सही गलत की समझ बढ़ाता जीवन पुस्तक रोज़ पढ़ा कर सही गलत की समझ बढ़ाता तेरी जय का शंख बजायें रौशन तारे बन जायें वखरी तेरी शोहरत तेरी शोहरत सदा सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः	Tamso ma jyotirgamaya Tamso ma jyotirgamaya Tamso ma jyotirgamaya Tamso ma jyotirgamaya Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Mann mein tera aadar maan Aur mohabbat sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Tu hai apna bhavishya vidhata Pankh bina parwaaz sikhata Jeevan pustak roz padha kar Sahi galat ki samajh badhata Jeevan pustak roz padha kar Sahi galat ki samajh badhata Teri jai ka shankh bajayein Roshan tare ban jaayein Vakhari teri shohrat Teri shohrat sada sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Tamso ma jyotirgamaya Tamso ma jyotirgamaya
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SCHEDULE FOR ENTRANCE TEST AND ADMISSION
PULEET-2020

Sr. No.	Activity	Schedule
1	Date of availability of Prospectus and Application Form on the website of Panjab University.	17-07-2020 (Friday)
2	Last date for submission of information on the website to generate the Bank Challan	01-10-2020 (Thursday)
3	Last date for deposit of fee in any branch of State Bank of India (SBI) using website generated challan	05-10-2020 (Monday) up to 4:00 p.m.
4	Last date for uploading of photograph, signature with the remaining information on the website	07-10-2020 (Wednesday)
5	Final date by which Roll Nos. will be available online Roll number and the centre of the examination will be generated and further, the roll number slip is required to be downloaded from the website by the candidate using their own login and password (provided while generating Bank challan). There will be no physical communication for this purpose	12-10-2020 (Monday)
6	Candidates who have not completed their form but have paid their requisite fee, can complete their form by paying late fee of Rs. 500/-	15-10-2020 (Thursday)
7	Date and Time of Entrance Test	18-10-2020 (Sunday) 01:00 P.M. – 02:40 P.M.
8	Uploading of Answer key and inviting objections (through e-mail to arcet@pu.ac.in)	21-10-2020 (Wednesday)
9	Last day of submission of objections to the Answer key	23-10-2020 (Friday)
10	Uploading of the response to the Objections and inviting Cross-objections (through e-mail only)	27-10-2020 (Tuesday)
11	Last day of submission of Cross Objections to the Answer key	29-10-2020 (Thursday)
12	Date and mode of declaration of result	04-11-2020 to 06-11-2020 (Wednesday to Friday)
13	Centre for the Entrance Test	Chandigarh & Hoshiarpur Only
15	Demand draft of Rs. 45,000/- (Forty five thousand only) as Admission fees in favour of Chairman Joint Admission, payable at Chandigarh, after allotment of seat.	At the time of Counselling-cum-Admission only
16	Venue of Counselling	Old Library Hall, Academic Block I, UIET, Sector 25, P.U. Chandigarh
17	<u>Dates of Counselling</u>	
	<u>1st Counselling</u>	
	Date and Time for Reporting-cum-Registration for 1st Counselling*	To be decided later on
	Reporting for classes in the allotted institute	Next day of the first counseling
	#Subsequent Counselling, if any will be notified on website.	
18	Sports Candidate	Candidates applying under Sports Category should deposit their Admission form at UIET, Panjab University, South Campus, Sector 25, Chandigarh.

#These are the seats which remain unfilled in Reserved Categories and are transferred to General Category as per rule.

Note: Applying for Entrance Test and taking the Test does not entitle a candidate for admission. For admission to PULEET based programme being offered by Institutes of Panjab University, Chandigarh and CCET Sector 26, Chandigarh, the candidate has to submit Admission Form at the time of counseling. Admission Form and Scrutiny Form will be available at <http://puleet.puchd.ac.in>.

IMPORTANT NOTES

1. The Fee for PULEET Entrance Test is Rs. 2175/- (Rs. 1088/- for SC/ST/PwD). The fee for the Entrance Test once paid shall not be refunded.
2. Candidate availing concession in the fee under category SC/ST/PwD OR Class B/C Regular Employee of PU must send a copy of the printout of their Entrance Test Form along with Performa for claiming 50% concession to P.U. Regular Employees ("B" and "C" Class) duly signed by Head/Chairperson to Assistant Registrar, CET Cell, Aruna Ranjit Chandra Hall, Panjab University, Chandigarh-160014 by registered post/speed post or by hand on or before **09-10-2020 (Friday)** up to 4:00 p.m.
3. Only the candidates who have passed or are appearing in the qualifying examination for a particular Course can apply for the Entrance Test.
4. The Entrance Test will be of **100 marks** consisting of multiple-choice questions, there shall be negative marking for wrong answers i.e. $\frac{1}{4}$ marks will be deducted for wrong answers and for each correct answer 1 mark is to be awarded.
5. Qualifying an Entrance Test does not entitle a candidate to seek admission in a course. The candidate will have to fill up and submit an Admission Form and has to meet the eligibility requirements of the course.
6. The result of the Entrance Test will be available at <http://results.puchd.ac.in>. No separate Result Cards will be issued.
7. The University will publish a common Merit cum rank list. Rank will be awarded based on marks obtained in the PULEET exam to all the candidates. There will be no cut off marks in the PULEET Entrance Test for any category.
8. Candidates securing equal marks shall be bracket together. Their **inter-se** merit will be determined by the Institution in accordance with the following criteria:
 - (i) A candidate getting a higher percentage of marks in the qualifying examination shall rank higher in order of merit.
 - (ii) That if the marks in qualifying examination are also the same then the candidates obtaining more marks in the immediate lower examination, shall rank higher in order of merit.
 - (iii) That if two or more candidates secure equal marks in (i) & (ii) above, candidate senior in age shall rank higher in the order of merit.

Faculty members are available for consultation and guidance of students from 3:00 P.M to 4:00 P.M on working days.

Eligibility Conditions, Scheme of Tests, Merit Criteria

Eligibility Conditions

The lateral entry from Diploma to 2nd year of 4-year B.E. degree level will subject to the following conditions:

- (i) The candidate must have passed diploma in Engineering of minimum 3 year duration after Matriculation Examination with Physics and Mathematics, from polytechnic college/institute affiliated with state board of Technical Education/University, or recognized by UGC/AICTE. In addition, the candidate must have obtained 60% (55% for SC/ST/BC/PwD) marks as an aggregate in the Diploma Course.

Or

The candidate must have passed a diploma in the engineering of minimum 2 year duration after 10 + 2 from Polytechnic college/institute affiliated with state board of technical education/university, or recognized by UGC/AICTE. In addition, the candidate must have obtained 60% (55% for SC/ST/BC/PwD) marks as an aggregate in the Diploma Course.

Or

Candidates who have passed D. Voc. stream from Polytechnic college/institute affiliated with state board of technical education/university, or recognized by UGC/AICTE will be eligible for admission to the second year of B.E. program in the same or allied sector only. In addition, the candidate must have obtained 60% (55% for SC/ST/BC/PwD) marks as an aggregate in the D. Voc. Course (Applicable Only for CCET, Chandigarh).

- (ii) Candidate must have passed their qualifying examination i.e. Diploma in Engineering not earlier than **2018**.
- (iii) Admission would be made on the basis of merit obtained in the Entrance Examination **PULEET-2020** conducted by the Panjab University, Chandigarh.
- (iii) **Candidate must have cleared reappear or compartment if any in Diploma in Engineering before registering for the counselling otherwise he or she is not eligible to participate in the counselling.**

Note: In case, Second counseling will be conducted then any candidates who have cleared his/her reappear/compartment before date of second counselling shall be eligible.

Scheme of Test

The duration of the Entrance Test will be one hour and forty minutes and it will consist of 100 multiple-choice questions of one mark each. The syllabus will be based broadly on the course contents as provided in the Prospectus. There will be negative marking for wrong answers (¼marks will be deducted).

Merit Criteria

There will be no cut off of marks in the PULEET entrance test for any category. The University will publish common Merit cum rank list. Rank will be awarded on the basis of marks obtained in the PULEET exam to all the candidates. Branch and Institute will be finalized at the time of admission as per the availability of seats strictly on the basis of merit and eligibility conditions.

INFORMATION REGARDING SEATS

**Seats available at Chandigarh College of Engineering & Technology,
Sector 26, Chandigarh**

Total Sanctioned Intake under LEET: 24 Seats

(a)	<u>STATE QUOTA (UT CHANDIGARH):</u> All those candidates who have passed their qualifying examination 3 years Diploma with 60% marks (55% marks for SC/ST/PwD) in aggregate but not earlier than 2018 from Technical Institute/ Colleges located in the Union Territory, Chandigarh and recognized by the Chandigarh Administration	20 seats
(b)	<u>ALL INDIA QUOTA:</u> Candidates who have passed their qualifying examination 3 years diploma course with 60% marks (55% marks for SC/ST/PwD) in aggregate but not earlier than 2018 but are not covered under category (a) above.	4 seats
Total		24

- In addition to above mentioned 24 seats additional 02 seats under Economically Weaker Section Category are available as supernumerary seats.
- In addition to above, any seats lying vacant in 2nd year of engineering programmes are also to be filled through lateral Entry along with above 24 nos. seats. At present 24 nos. seats are lying vacant due to surrender of seats by first year students and these seats are also to be filled in through PULEET 2020.

The detailed branch-wise break-up of the seats (i.e. for 50) is given in the table below:-

SNo	Category	Quota	CSE	ECE	CIVIL	MECH.	Total
1	a) Scheduled Caste*(15%)	State Quota (UT Chd.)	-	1	1 + 1*	1	4
		All India Quota	-	-	-	1*	1
	b) Scheduled Tribe*(5%)	All India Quota	-	-	-	-	-
2	Sons/ Daughters/ Spouses of military/ Paramilitary Personnel's (5%)	State Quota (UT Chd.)	-	-	1 + 1*	-	2
		All India Quota	-	-	-	-	-
3	Physically Handicapped (5%)	State Quota (UT Chd.)	1	-	-	-	1
		All India Quota	-	-	-	-	-
4	Children & Grandchildren of Freedom Fighters (2%)	State Quota (UT Chd.)	-	-	-	-	-
5	Sports Persons (2%)	State Quota (UT Chd.)	-	-	-	-	-
6	Open Seats	State Quota (UT Chd.)	4 + 4*	4 + 6*	3 + 4*	4 + 5*	34
		All India Quota	01	01	1 + 1*	1 + 1*	06
		Total	10	12	13	13	48
A	Economically Weaker Section (EWS)/Other than SC/ST/BC	State Quota (UT Chd.)	-	01	01	-	02
		All India Quota	-	-	-	-	-
		Total	10	13	14	13	50

* Indicates Vacant Seats status.

- The above position of vacant seats is tentative. In case any other seat lying vacant due to surrender till the date of counselling, the same will also be filled in through PULEET 2020.

- Note 1: For details instructions with reference to LEET admission, please visit www.ccet.ac.in
- Note 2: Candidates seeking admission against any of the reserved seats required to submit a Certificate regarding their category in the prescribed form duly issued and signed by the concerned authority of the State. The admission of candidates against reserved seats will be provisional subject to verification of his/her certificate from the issuing authority. If at any time after enquiry it is proved that the student has got the benefit by misrepresentation of facts or submitting false documents, his / her candidature shall be deemed to have been cancelled.
- Note 3: The Institute follows reservation policy of the Chandigarh Administration issued from time to time.
- Note 4: The Institute follows the sports policy of Chandigarh Administration issued from time to time.
- Note 5: Amendment, if any, in the reservation policy of Chandigarh Administration will be followed up to the date of admission for each course.
- Note 6: Vacant seats can be increased based upon actual availability on the day of counselling.

INFORMATION REGARDING PROGRAMS AND SEATS AVAILABLE AT PANJAB UNIVERSITY INSTITUTES

IMPORTANT NOTE: Seats mentioned below in the seat matrix are to be filled first through **Panjab University Migration Engineering Entrance Test 2020 (PUMEET-2020)**. The seats if remaining vacant after considering all the eligible candidates in **PUMEET 2020** will be offered for admission under **PULEET2020**.

University Institute of Engineering & Technology (UIET), South Campus, Sector 25, Panjab University, Chandigarh

Sr. No.	Category	B.E. (Electrical & Electronics Engineering) Vacant Seats: 07	B.E. (Electronics & Communication Engineering) Vacant Seats: 14	B.E. Information Technology Vacant Seats: 04	B.E. (Mechanical Engineering) Vacant Seats: 10	B.E. (Biotechnology) Vacant Seats: 18	B.E. (CSE) Vacant Seats: 04
1.	General (53.5%)	05	07	03	05	10	03
2.	SC (15%)	01	02	01	02	03	01
3.	ST (7.5%)	01	01	Nil	01	01	Nil
4.	BC (5%)	Nil	01	Nil	01	01	Nil
5.	PwD (5%)	Nil	01	Nil	01	01	Nil
6.	Defence (5%)	Nil	01	Nil	01	01	Nil
7.	Sports (5%)	Nil	01	Nil	01	01	Nil
8.	Freedom Fighter (2%)	Nil	Nil	Nil	Nil	Nil	Nil
9.	Riot Victim / Terrorist Victim (2%)	Nil	Nil	Nil	Nil	Nil	Nil

DR. SSB University Institute of Chemical Engineering & Technology (UICET), Sector 14, Panjab University, Chandigarh

Sr. No.	Category	B.E. (Chemical) Vacant Seats: 04	5year Integrated B.E. (Chemical) MBA Vacant Seats: 05	B.E. (Food Technology) Vacant Seats: 05
1.	General	03	04	04
2.	Scheduled Castes	01	01	01
3.	Scheduled Tribes	Nil	Nil	Nil
4.	Backward Classes	Nil	Nil	Nil
5.	Persons with Disability (PwD)	Nil	Nil	Nil
6.	Sports	Nil	Nil	Nil
7.	Defence	Nil	Nil	Nil
8.	Terrorist/Riot Victim	Nil	Nil	Nil
9.	Freedom Fighter	Nil	Nil	Nil

UIET, Panjab University Swami Sarvanand Giri Regional Centre, Hoshiarpur

Sr. No	Category	B.E (ECE) Vacant Seats(09)	B.E. (CSE) VacantSeats (03)	B.E. (Mech.) Vacant Seats(27)	B.E. (IT) VacantSeats(11)
1.	General (53.5%)	07	03	15	06
2.	Schedule castes (SC) (15%)	01	Nil	04	02
3.	Schedule Tribes (ST) (7.5%)	01	Nil	02	01
4.	Persons with disability (PwD) (5%)	Nil	Nil	01	01
5.	Backward class (BC)(5%)	Nil	Nil	01	01
6.	Sports (5%)	Nil	Nil	01	01
7.	Defence (5%)	Nil	Nil	01	01
8.	Terrorist/Riots victim (2%)	Nil	Nil	01	Nil
9.	Freedom fighter (2%)	Nil	Nil	01	Nil

*If additional seats in reserve category remain vacant then those seats will not be converted into the open category

The final list of Vacant Seats available at Panjab University institutes **will be intimated after the completion of PUMEET 2020 counselling on the website.**

GENERAL NOTE:

1. In case any other seat falling vacant due to surrender till the date of counseling, the same will also be filled in through PULEET.
2. For detailed instructions with reference to PULEET admissions, please visit <http://puleet.puchd.ac.in>
3. Candidates seeking admission against any of the reserved seats are required to submit a Certificate regarding their category in the prescribed format mentioned in the Prospectus duly issued and signed by the concerned Authority. The admission of candidates against reserved seats will be provisional, subject to verification of his/her certificate from the issuing authority. If at any time after enquiry it is proved that the student has got the benefit by misrepresentation of facts or submitting false documents, his / her candidature shall be deemed to have been cancelled.
4. The Institute follows reservation policy/guidelines of Panjab University, Chandigarh issued from time to time.
5. Refund in case of surrender or withdrawal of seat will be as per rules of Panjab University, Chandigarh.

PART –A

CHANDIGARH COLLEGE OF ENGINEERING AND TECHNOLOGY, SECTOR-26, CHANDIGARH

Chandigarh College of Engineering and Technology has the unique distinction of being the College under the administrative control of Chandigarh administration. It is affiliated to Panjab University, Chandigarh. The campus is divided into various functional zones like Academic and Administrative Block, Hostels and Residential complex for faculty and staff. In addition to spacious Virtual Classrooms, Tutorial Rooms and Drawing Halls, the College has an Auditorium, computerized Library with Online E-Journals through INDEST-AICTE consortium, Computer Centre, Cyber Café, Reading Rooms, Workshops, well-equipped Laboratories and Playgrounds.

FEE:

1. A candidate who gets admission in CCET through PULEET-2020 has to deposit Rs. 45,000* at the spot on the date of counselling in the shape of demand draft in favour of Chairman Joint Admission, payable at Chandigarh.
2. Hostel Fee (applicable to hostlers only): Rs. 4,450/- approximately to be paid (in cash only) at fee counter in CCET (State Bank of Patiala) on the date of counselling or within Two days.
3. Details of fee which includes Annual Charges, University Charges & Tuition fee are available in the college Prospectus and college website (www.ccet.ac.in). The total fee of CCET is Rs. 36715/-*approximately (without hostel).

NOTE:

* The above fee is subject to change as per instructions of Chandigarh Administration/ PU from time to time & will be binding.

1. Financial assistance is available for meritorious students belonging to SC/ST categories under a scheme introduced by the Chandigarh Administration.
2. No admission under any quota during the Counselling period will be made if the matter is subjudged in the Court of Law.

REFUND RULES

1. The refundable deposits will be fully whenever the student withdraws his admission from the institute.
2. If a student after being granted admission pays the fee but does not register with the institute on the prescribed date, withdraws his admission and applies for refund **before the date of final counselling**, the entire fee paid by him/her shall be refunded except for the non-refundable deposits.
3. A student who withdraws his / her seat after the final counselling for admissions for the year has taken place, will not be entitled to refund of any fee paid by him/her except for the refundable deposits.
4. Refund of fee, in above cases, shall be made after the close of final counselling in applicable cases.

CCET RESERVATION CONDITIONS

1.	<p>Sons/ Daughters/ Spouses of military/ Paramilitary Personnel's (5%)</p>	<p>Paramilitary personnel means persons serving with Assam Rifles/ Border Security Force/ Central Reserve Police Force/ Central Industrial Security Force/ Indo-Tibetan Border Police Force/ Railway Protection Force/ Secretariat Force/Intelligence Bureau/National Security Guards/Special services Bureau.</p> <p>The ward of a Govt. official serving on deputation with paramilitary forces will not be considered for the benefit of reservation under this category.</p> <p>The admission of the candidates against the reserved seats under this category will be made on the basis of merit list prepared from the following categories of the applicants, in order of preference:</p> <p>(i) Wholly dependent sons/daughters/spouses of military personnel and paramilitary personnel who were killed in action while in service.</p> <p>(ii) Wholly dependent sons/daughters/spouses of military personnel and paramilitary personnel who were disabled, to the extent of 50% or more, in action while in service and boarded out from service.</p> <p>(iii) Wholly dependent sons/daughters/spouses of military and paramilitary personnel who died while in service and whose death was attributable to military service.</p> <p>(iv) Wholly dependent sons/daughters/spouses of military personnel and paramilitary personnel who were disabled, to the extent of 50% or more, while in service and boarded out with disability attributable to military services.</p> <p>(v) Wholly dependent sons/daughters/spouses of military personnel who are awardees of gallantry decorations (in person or posthumously) as given below, in order of preference:</p> <ul style="list-style-type: none"> a) Param Vir Chakra (PVC) b) Ashok Chakra (AC) c) Maha Vir Chakra (MVC) d) Kirti Chakra (KC) e) Vir Chakra (VrC) f) Shaurya Chakra (SC) g) Sena/ Nausena/ Vayusena Medal h) Mention-in-Despatches <p>(vi) Sons/Daughters/Spouses of ex-servicemen (military and paramilitary personnel) who are wholly dependent on them must produce discharge Book along with Pension Book.</p> <p>(vii) Sons/Daughters/Spouses of serving military personnel and paramilitary personnel who are wholly dependent on them.</p> <p>Important</p> <ul style="list-style-type: none"> • The candidates claiming admission under category (i)/ (ii) are required to submit a certificate from the respective headquarters regarding death/disablement in action while in service.
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		<ul style="list-style-type: none"> • The candidates claiming admission under category (iii) and (iv) are required to submit a certificate from the respective headquarters regarding death/disablement while in service, and attributable to military service. • The candidates claiming admission under category (v) are required to submit the photocopy of citation for the gallantry award, failing which the application will not be considered in this category. • The candidates claiming admission under category (vi) are required to submit certificate of discharge from service of the parent/spouse and certificate of dependence on parent/spouse from the competent authority. • The candidates claiming admission under category (vii) are required to submit the certificate of dependence from the unit in which parent/spouse is serving. • Specimens of the required certificates are enclosed herewith (Sub Appendix B1, B2 and B3)
2.	Persons with Disability (PwD) (5%)	<p>Applicants will be considered in this category only if the minimum loss of earning capacity due to handicap is 40%, according to the criteria laid down in the standards of E.S.I. Corporation of India. Candidates under PwD category shall produce a certificate of their permanent physical disability from a Civil Surgeon of a District/Director/Principal or a Professor of a Medical College affiliated to University or an institution of national importance provided that the claimant in this category is otherwise capable to pursue the course for which the admission is sought. If this certificate is not attached with the Admission Form, the candidate will not be considered against the seats reserved for this category. The candidate will be called for the Counselling on the basis of the certificate attached with the Admission Form.</p> <p>After provisional admission, the candidate will have to appear before the Medical Board constituted by the Principal Medical Officer, General Hospital, Sector 16, Chandigarh, for determination of the percentage loss of earning capacity through handicap/disability and getting a certificate to this effect. This certificate will also indicate the name of the disease causing the handicap; whether the handicap is progressive or non-progressive; and whether the candidate is able to carry on the studies and perform the duties of an engineer/architect. The final admission will be based on this certificate issued by the Medical Board. In case any candidate does not present himself before the Medical Board on the date intimated to him, his candidature against this category will be rejected and no subsequent opportunity will be given to him.</p> <p>An applicant having a temporary or progressive handicap would not be considered for admission against the seats reserved for this category.</p> <p>Specimen of the required certificate is enclosed herewith (Sub Appendix B4).</p>
4.	10% Economically Weaker Section (EWS) other than SC/ST/BC	<p><u>Reservation for Economically Weaker Section who are not covered under the existing scheme of reservations for the Scheduled Castes, the Scheduled Tribes and the Socially and Educationally Backward Classes</u></p> <p>Chandigarh Administration, (Technical Education Department) Chandigarh has implemented reservation for Economically Weaker Section who are not covered under the existing scheme of reservations for the Scheduled Castes, the Scheduled Tribes and the Socially and Educationally Backward Classes in admissions in educational institutions to the extent of 10% of sanctioned intake in each course in</p>

		<p>respect of students belonging to Economically Weaker Section vide its letter No. 19/1/13-1H(10)-2019/7185, dated 01-05-2019. The admission of candidates against this category shall be made on the basis of the merit subject to the fulfillment of following conditions:-</p> <p>1. Persons who are not covered under the existing scheme of reservations for the Scheduled Castes, the Scheduled Tribes and the Socially and Educationally Backward Classes and whose family has gross annual income below Rs. 8.00 lakh are to be identified as EWSs for the benefit of reservation. Family for this purpose will include the person who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years. The income shall include income from all sources i.e. salary, agriculture, business, profession etc. and it will be income for the financial year prior to the year of application. Also persons whose family owns or possesses any of the following assets shall be excluded from being identified as EWSs, irrespective of the family income:</p> <ul style="list-style-type: none"> i. 5 acres of Agricultural Land and above; ii. Residential flat of 1000 sq. ft. and above; iii. Residential plot of 100 sq. yards and above in notified municipalities; iv. Residential plot of 200 sq. yards and above in areas other than the notified municipalities. <p>2. The income and assets of the families as mentioned in para 1 above would be required to be certified by an officer not below the rank of Tehsildar in the States/UTs. The officer who issues the certificate would do the same after carefully verifying all relevant documents following due process as prescribed by the respective State/UT. The format of the Certificate to be submitted by candidate is placed at Sub Appendix B9</p>
		<p>Note: - Any fresh guidelines in this regard issued by Chandigarh Administration from time to time will be applicable.</p>

LIST OF DOCUMENTS REQUIRED
(FOR CCET ONLY)

1. On the scheduled date of reporting, bring duly filled-in Scrutiny Form (available in PULEET website) and three recent passport size (5 cm x 4 cm) photographs.
2. Bring the original documents and one set of self-attested photocopies of all the documents.
3. Arrange original documents and their self-attested photocopies in the following order:
 - a) PULEET Result card
 - b) Class 10th certificate for Date of Birth
 - c) Character certificate from the Institute last attended.
 - d) Detail Mark Certificates of each semester of Diploma Course.
 - e) Diploma Certificate
 - f) Testimonials w.r.t. computation of Diploma Percentage (If any)
 - g) Equivalence Certificate (if any)
 - h) Migration Certificate
 - i) SC/ST Certificate (wherever applicable) Sub Appendix B6
 - j) Certificate of Death/Disablement of Military/Paramilitary Personnel (wherever applicable) Sub Appendix B1
 - k) Certificate of Gallantry Award to Military/Paramilitary Personnel (wherever applicable) Sub Appendix B2
 - l) Certificate of Dependence on Military/Defence/Paramilitary Personnel (wherever applicable) Sub Appendix B3
 - m) Person with Disability (PwD) Certificate Sub Appendix B4
 - n) Gap Year Affidavit (wherever applicable) Sub Appendix B5
 - o) Undertakings by students and parent at Sub Appendix B7 and Sub Appendix B8
 - p) Income and Asset Certificate to be produced by Economically Weaker Section Category Candidate. Sub Appendix B9
4. At the reporting venue, sign your attendance in the list kept at the Attendance Desk.
5. When called upon, go to the Scrutiny Desk and get your documents scrutinized. Hand over the Scrutiny Form along with self-attested photocopies to the Scrutiny Desk official and collect the Allotment Slip.
6. After the issuance of Allotment Slip, the candidate is required to deposit the Bank Draft at the Fee Desk.

PART B

Participating Institutes of Panjab University, Chandigarh

Out of the four participating institutes, the following institutes are governed by the rules and regulations of Panjab University, Chandigarh:

1. University Institute of Engineering and Technology, Panjab University, Chandigarh.
2. Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Chandigarh
3. University Institute of Engineering and Technology, Panjab University SSG Regional Centre, Hoshiarpur

About Panjab University, Chandigarh

Founded in 1882 at Lahore and shifted to Chandigarh in 1956, Panjab University was the fourth teaching and affiliating University on the Indian Subcontinent under British rule. This Interstate Corporate body, substantially supported by Central Government, is drawing students from all over the country. Stretched over 550 acres, the university offers education and research facilities in various disciplines like engineering, medical sciences, physical and chemical sciences, bio-sciences, management, pharmaceutical sciences, law, arts and languages through regular courses as well as through correspondence and evening courses backed by faculty of national and international repute. The beautifully laid compact campus is equipped with modern amenities in the pollution-free environment of the university. University Computer Center has established 10 Gigabit campus wide Network to provide high-speed connectivity to various departments. The University library, with internet connectivity for access to huge research, reported the world over and with 24-hour access, is one of the largest libraries in Asia. Other amenities include extensive modern hostels (about 7000 seats), vast playgrounds, swimming pool of international standards, gymnasium, dispensary, market and banking etc. University has networked itself with universities/institutes of national and international repute.

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY (UIET), PANJAB UNIVERSITY, CHANDIGARH

UIET, Chandigarh was established by Panjab University as an in-campus department in 2002. With the vision to be the front runner in engineering education and research, the mission of UIET is to produce professionally competent students for a career in engineering and technology by providing value-based quality education. The well-qualified faculty is the backbone of the institute. Well-equipped laboratories provide exposure to the students towards practical aspects of engineering. State-of-art computing facilities and internet connectivity provide ample scope for students to learn round the clock. The whole campus is Wi-Fi enabled and students may avail of this facility in the institute as well as in the hostels.

UIET has MOUs with industry leaders and academia like Infosys, Spice Digital Limited, PGIMER, CSIO, C-DAC, IIT Kanpur, IIT Roorkee, etc. The institute has a good liaison with industry. Bharti group of industries has set up a chair in Telecommunication to boost research in the field of Telecommunication. The institute is a member of the Campus Connect programme of Infosys Pvt. Ltd., and has alliances with IBM, Microsoft and Oracle. The programme supports faculty training in the industry, project guidance to students, curricula inputs, industry perspective of teaching-learning and expert lecture inputs. Lately, the institute has signed MOU with the University of Western Australia, for the exchange of students and faculty along with joint research projects.

Along with teaching, the major focus of the institute is on research and development activities. Faculty members carry out R&D activities that result in published research work at the national and international levels. The faculty is working on various sponsored research projects from different agencies like MeTy, AICTE, DST, UGC, DRDO and the Department of Biotechnology, etc. Conferences, Seminars and Workshops are continuous process of interaction at various levels among the students, faculty and the experts from industry as well as research organizations. Integrated development of the students as professionals with soft skills is emphasized upon. With the regular revision of syllabi, more industry oriented courses and open Electives have regularly been introduced in the curriculum.

UIET has recently completed second phase of Technical Education Quality Improvement Programme (TEQIP-II), wherein a grant of ₹15 crores was provided by the World Bank. UIET is currently executing the 3rd phase of TEQIP as a mentoring institute, for which a grant of ₹ 7 crores has been earmarked. The main emphasis of this program has been to improve the overall quality of existing engineering education across India. Under this programme, the institute has signed MOUs with IIT, Kanpur and IIT, Madras for knowledge dissemination using Video lectures, Virtual Labs and Faculty/students exchange programmes. UIET has been awarded Design Innovation Centre (DIC), which is an initiative of Ministry of Human Resource Development (MHRD), Government of India and has been provided financial outlay of Rs 10 Crores. Its mandate is to nurture design and innovation culture in engineering education. The hub and spoke model has been devised where UIET as a hub while PEC, Chandigarh, CSIO, HSJ IDS, PU Chandigarh collaborating as the spokes to share their expertise, facilities and experience in achieving the objectives of DIC.

Over the years, the alumni of the institute occupies eminent positions in reputed industries and institutes like Microsoft technologies, ST Microelectronic, Accenture, TCS, Infosys, Wipro, Tech-Mahindra, SAP, Oracle, Swaraj Pvt. Ltd., Maruti Udyog Ltd, Panacea Biotech, BHEL, etc. Further details are available on the institute website <http://uiet.puchd.ac.in>

DR. S.S. BHATNAGAR UNIVERSITY INSTITUTE OF CHEMICAL ENGINEERING AND TECHNOLOGY, CHANDIGARH

Department of Chemical Engineering & Technology, Panjab University, Chandigarh was established in collaboration with the Illinois Institute of Technology, USA. This department is currently known as Dr S.S. Bhatnagar University Institute of Chemical Engineering and Technology (Dr. SSBUICT) and is one of the oldest and the most reputed Institute of Chemical Engineering in India and traces its history back to Prof. Shanti Swarup Bhatnagar (founder Director of CSIR and Father of Research Laboratories). In 1958, Professor R.E. Peck from IIT, Chicago joined as Head of the Department of Chemical Engineering & Technology. Over the period of time, the Institute expanded its horizons to include postgraduate and Ph.D. Programmes in Chemical Engineering, Polymer Technology, Industrial Chemistry and Food Technology. In view of the growing demand, Undergraduate programme in Food Technology was introduced in 1999. Later a 5-Year Integrated programme of B.E. (Chemical)-MBA was introduced in the year 2008. At present Integrated B.E. (Chemical)-MBA course is not approved by UGC/AICTE. The mission and vision of Dr. SSBUICT are:

Vision:

To achieve National and International recognition in the field of Chemical Engineering and allied fields thus fulfilling the Panjab University's proud heritage through excellence in teaching, research and service.

Mission:

To develop human resource in Chemical Engineering, Food Technology and allied areas to cater to the requirements of the industry, academics and R & D organizations, both at national and international levels, by providing value-based high quality technical education.

To equip the students with technical, research and personality development skills by providing them competitive and stimulated academic environment and to create awareness about the needs and requirements of the society and industry by regularly revising and reorienting courses and curriculum.

To make significant contributions towards improving the quality of life by involving students in basic and applied research in collaboration with industries and research institutes to meet the changing needs of society.

Over the years Dr. SSBUICT has continued to maintain global standards of excellence and infrastructure which have been upgraded regularly through GOI grants like FIST, PURSE, SAP etc. The Institute has completed the TEQIP II and is beneficiary of the World Bank Assisted Technical Education Quality Improvement Programme-III of Government of India (TEQIP-III). Institute has a very strong alumni base. The alumni occupy positions of responsibility and eminence in all spheres of industry, academia and Government in India and abroad. They are associated with Institutions like IOCL, Petronet LNG, HMEL, Hindustan Unilever Ltd., Vedanta, UOP, ITC, Nestle, Wrigley, KBR, ONGC, Shell India Ltd., EIL, Bectal, GAIL and many more. Many MNC's and some of the reputed National companies that have visited our institute include; Universal Oil Products (UOP), Reliance Industries Limited (RIL), Petronet LNG, Indian Synthetic Rubber Limited (ISRL), Infosys, Kellogg Brown & Root (KBR), Samsung Engineering, Technip KT India Ltd., SRF Chemicals, Crain India, Exxon Mobil, Jaro Education, Nestle, Mondeze etc. The maximum package offered to the B.E. students during placements in the Institute is about Rs. 12.02 lacs/annum.

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY (UIET), PUSSGRC, HOSHIARPUR

Keeping with its long tradition of pursuing excellence in teaching and research, Panjab University, Chandigarh established a Regional Centre in the Kandi area of Punjab to cater to the academic needs of the rural students of the region. Earlier known as Swami Sarvanand Giri Regional Centre, this campus was renamed as Panjab University Swami Sarvanand Giri Regional Centre in the year 2011. Spread in the picturesque environment near Shivalik foothills, the centre is a landmark donation of infrastructure spread in 10.86 acres of lush green area in the land of saints (Hoshiarpur) by Late Dr. Lajpat Rai Munger. The Centre was started with an aim to provide innovation and pre-eminence in the fields of Engineering and Research, conforming to the standards of Panjab University, Chandigarh. The Centre has been reinstated with several branches like the University Institute of Engineering and Technology (UIET), Department of Computer Science and Applications (DCSA) and University Institute of Legal Studies (UILS).

UIET, Hoshiarpur offers Graduate Engineering programs in four branches i.e. Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Information Technology (IT), and Mechanical Engineering (ME). The institute has well-qualified faculty committed to both academics and research. Some of the faculty members have DST/CSIR funded/sponsored research projects. The centre has the well-equipped infrastructure, self-sufficient state-of-the-art laboratories and workshops. The secured campus offers hostel accommodation for both boys and girls with Wi-Fi facility, Health Centre, Cafeteria, 170 Mbps leased line Internet Connectivity, buses for transportation, 24 hours uninterrupted power supply through hotline etc. Apart from academics, UIET PUSSGRC also promotes interaction of students and faculty with the experts from industries and other organizations through National level conferences, symposiums, seminars, short term courses and workshops on regular basis. The department also has a rich collection of library books with latest edition.

The institute has commendable placement record with students getting placed in reputed companies like Infosys, Infogain, Tech Mahindra, FCS Technologies, Aricent, Cognizant, IBM, HP, L&T, SML ISUZU and others. The campus has proud alumni serving at good positions in various renowned organizations in India and abroad. Further, UIET has MOU with Infosys for Campus Connect Program, Centre Institute of Hand tools, Jalandhar and Industry Institute Partnership with local Industries. For channelizing the energy of the students, the campus also offers NSS, NCC, Gymnasium and all other necessary sports amenities. It also houses an air-conditioned auditorium with a seating capacity of more than 300 persons for academic and cultural activities.

FEE (2020-21)

1. A candidate who is offered admission in Panjab University Institutes is required to pay 1st installment of Rs 45,000/- is to be paid on the spot through *Demand Draft* in favor of '*Joint Admission Committee, Payable at Chandigarh*'
2. Besides above Rs. 1000/- (One thousand) (non-refundable) is to be paid as counseling fees (on spot) through *Demand Draft* in favor of '*Joint Admission Committee, Payable at Chandigarh*'.
3. In addition to fee, the admitted candidates are also required to deposit the following:
 - a. If a candidate gets admitted to UIET, Panjab University, Chandigarh, the candidate needs to submit a sum of Rs. 1000/- (non-refundable) as UTECHNOS fees (Annual Subscription) and Rs. 1000/- (non-refundable) as Alumni Affairs Fees in the form of Bank draft/Cash in the favour of Director, UIET, Panjab University Chandigarh.
 - b. If candidate gets admitted in Dr. SSB UICET, Chandigarh, candidate needs to submit a sum of Rs. 1500 /- in the form of Bank Draft in favour of "*Deptt. of Chem. Engg. Society*"
 - c. if candidate gets admitted in UIET, PUSSGRC, Hoshiarpur candidate needs to submit a sum of Rs. 1000/- (non-refundable) in the form of Bank draft/Cash in the favour of "*SSGPURC Student Society*", payable at Hoshiarpur.

*Fee is subject to change from Panjab University, Chandigarh from time to time.

Note: Refund in case of surrender or withdrawal of seat will be as per rules of Panjab University, Chandigarh

List of Documents Required for Panjab University Institutes

1. On the scheduled date of reporting, bring duly filled-in Admission Form and scrutiny Form (available in PULEET website) and three recent passport size (5 cm x 4 cm) photographs.
2. Bring the original documents and one set of self-attested photocopies of all the documents.
3. Arrange original documents and their self-attested photocopies in the following order:
 - a) PULEET Result card
 - b) Class 10th Certificate.
 - c) Class 12th Certificate (wherever applicable).
 - d) Character Certificate from the Institute last attended.
 - e) Detail Mark Certificates of each semester of the Diploma Course.
 - f) Diploma Certificate
 - g) Testimonials w.r.t. computation of Diploma Percentage (If any)
 - h) Equivalence Certificate (if any)
 - i) Migration Certificate
 - j) SC/ST Certificate (wherever applicable) SUB APPENDIX A1
 - k) A person with Disability (PwD) Certificate Sub Appendix A2 (Form I-V)
 - l) BC Certificate SUB APPENDIX A3 and Undertaking SUB APPENDIX A3(A)
 - m) Undertaking for Achievements in Sports ANNEXURE I
 - n) Undertaking for Attendance in Sports Ground ANNEXURE II
 - o) Certificate for Defence Category SUB APPENDIX A4
 - p) Certificate for Dependents of Riot/Terrorist Victims SUB APPENDIX A5
 - q) Certificate for Children/Grandchildren of Freedom Fighters SUB APPENDIX A6
 - r) Gap Year Undertaking (wherever applicable) SUB APPENDIX A7
4. At the reporting venue, sign your attendance in the list kept at the Attendance Desk.
5. When called upon, go to the Scrutiny Desk and get your documents scrutinized. Hand over the Admission Form & Scrutiny Form along with self-attested photocopies of documents to the Scrutiny Desk official and collect the Allotment Slip.
6. After the issuance of Allotment Slip, the candidate is required to deposit the Bank Draft at the Fee Desk.

RULES FOR CANDIDATES APPLYING FOR RESERVED CATEGORIES AT PANJAB UNIVERSITY INSTITUTES

1. Scheduled Castes/Scheduled Tribes

The candidates belonging to Scheduled Castes/Scheduled Tribes have to bring the Caste certificate in original (See SUB APPENDIX A1) to this effect, issued by anyone of the authorities mentioned below:

- 1) District Magistrate/ Additional District Magistrate/ Collector/Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/ 1st Class Stipendiary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.
- 2) Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/ Presidency Magistrate.
- 3) Revenue Officer not below the rank of Tehsildar.
- 4) Sub-Divisional Officer of the area where the candidate and/or his/her family normally resides.
- 5) Administrator/ Secretary to Administrator/ Development Officer (Lakshadweep Islands).

Certificate, if issued by other than one of the authorities mentioned above, notification of Government must be included. A certificate not bearing the seal/stamp of the competent authority will not be accepted. **(Two copies of the same may be submitted – one photocopy is required for the subsequent verification from the issuing authority).**

2. Persons with Disability (PwD) : These seats are for persons or class of persons with disability* out of which 1% each shall be reserved for persons suffering from the disabilities specified under the RPWD 2016 Act:

- (A) Physical Disability
 - I. Locomotor disability
 - a) Leprosy cured persons
 - b) Cerebral palsy
 - c) Dwarfism
 - d) Muscular dystrophy
 - e) Acid attack victims
 - II. Visual Impairment
 - a) Low Vision
 - III. Hearing Impairment
 - a) Deaf
 - b) Hard of Hearing
 - IV. Speech and language disability
- (B) Disability caused due to
 - I. Blood Disorder
 - (i) Haemophilia
 - (ii) Thalassemia
 - (iii) Sickle Cell disease
- (C) Any other category as may be notified by the Central Government

* Claimant in this category should be capable of pursuing the course for which the admission is sought. The Persons with Benchmark Disability (as per section 2 (r) of the Rights of Persons with Disabilities [RPWD] Act 2016 should have a minimum of 40% disability duly certified by the Medical Board of District/State/UT/Medical Institution of National Importance. Such a certificate shall be further certified by the Medical Board of the Panjab University Health Centre.

If 5% of reservation of seats comes to 0.5 to 0.9, it shall be treated as one seat. However, if after calculating seats on the basis of 5%, the number of seats is divisible by 5, equal distribution of seats will be made for all the five categories. If after the division, any remainder is left, it shall be distributed on the basis of inter-se merit amongst all the five categories. If the seats after calculating on the basis of 5% come to less than 5 it shall be distributed on the basis of inter-se merit amongst all the five categories.

- a) In the absence of availability of candidates in any of the categories, the seats shall be interchanged inter-se.
- c) If seats reserved for Persons with Bench mark Disabilities remained unfilled, these shall be treated in the sanctioned strength of seats for General Category.

NOTE: The PwD candidates need to produce **certificates as provided in SUB APPENDIX A2** (Form I-V) of their permanent physical disability

3. Backward Class (BC) Category

The candidates belonging to Backward Class have to bring a certificate in original to this effect (See **SUB APPENDIX A3**), issued by any one of the authorities mentioned below:

1. Deputy Commissioner
2. Additional Deputy Commissioner
3. Sub-Divisional Magistrate
4. Executive Magistrate
5. Tehsildar
6. Naib Tehsildar
7. Block Officer
8. District Revenue Officer

A certificate not bearing the seal/stamp of the competent authority will not be accepted. Please note that OBC/SBC certificate is not acceptable. Candidate whose certificate is older than one year from the date of issue must submit the self-declaration as per Sub Appendix A3(A).

4. Defence Personnel: These seats are reserved (for all the under-mentioned categories taken together) for candidates who fall in one of the following categories (which are given there in order of precedence) :-

1. Son/Daughter/Spouse of such Defence personnel and CAPF personnel¹ who died in action. (Only those who were wholly dependent on such personnel shall be considered).
2. Son/Daughter/Spouse who is wholly dependent on such Defence & CAPF Personnel who were incapacitated²/died while in service.
3. Defence and CAPF personnel who were incapacitated while in service.
4. Son/daughter/spouse of ex-servicemen³ who are wholly dependent on them.
5. Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
6. Ex-Servicemen
7. Serving Defence personnel and CAPF personnel

The candidates desirous of getting admission under this category have to bring the following certificates in original:

- a) Certificate from the competent military authority as given in **SUB APPENDIX A4** is required.
- b) DISCHARGE BOOK AND PENSION BOOK MUST ALSO BE PRODUCED IN CASE OF EX-SERVICEMEN.

1. CAPF earlier known as Para-military forces, includes Assam Rifles (AR), Border Security Force (BSF), Central Industrial Security Force (CISF), Central Reserve Police Force (CRPF), Indo Tibetan Border Police (ITBP), National Security Guard (NSG), Sashastra Seema Bal (SSB) etc.

2. Incapacitation will mean incapacitation leading to the discharge of the person by concerned authorities

3. Ex-serviceman means a person who has served in any rank whether as a combatant or non-combatant in the regular Army, Navy and Air Force of the Indian Union / or in CAPF :-

- i) Who retired from the service after earning his/her pension; or
- ii) Who has been boarded out of the service on medical grounds attributable to military service/CAPF or Circumstances beyond his control and awarded medical or other disability pension; or
- iii) Who has been released from the service as a result of reduction in establishment ; or
- iv) Who has been released from the service after completing the specific period of engagement, (otherwise than at his own request, or by way of dismissal, or discharge on account of misconduct or inefficiency) and has been given a gratuity.

Territorial Army Personnel of the following categories shall also be considered as ex-servicemen:-

- (a) Pension holders for continuous embodied service.
- (b) Disabled Territorial Army Personnel with disability attributable to military service.
- (c) Gallantry award winners.

5.Terrorists / Riot Victim : These seats are for Sons / Grandsons / Daughters /Granddaughters / Husband / Wife / Brothers / Sisters of persons killed/incapacitated in **November, 1984 riots** and of persons **killed / incapacitated in terrorist violence in Punjab and Chandigarh**. A Certificate from the District Magistrate to this effect must be submitted by the candidate. Migrant Card alone is not enough.

The candidates eligible of applying under this category have to bring the **Riot/Terrorist Victim Dependent Certificate** in original (**SUB APPENDIX A5**).

6. Freedom Fighter Category: These seats are for the Children/Grand Children of **Freedom Fighters** who have been sanctioned pension by Central/State Govt. or awarded Tamra Patra by Government of India (Syndicate Para 15, dated 30-5-1997) or those who have been certified to be Freedom Fighters by the Central/State Govts.

The candidates applying for admission under Freedom Fighter Category must produce the in original the following documents:

- (i) **Freedom Fighter and Pension Certificate** (**SUBAPPENDIX A6**) from the Deputy Commissioner of the concerned district.
- (ii) In addition, they must produce the Pension booklet and/or Tamra Patra Certificate.

GUIDELINES FOR ADMISSION TO THE RESERVED CATEGORY OF SPORTS

(Candidates are advised to visit the website of Sports Department at www.sports.puchd.ac.in)

Five percent seats of the total number of seats in each course are reserved under this category. No benefit on the basis of sports shall be given to the candidates not applying for admission in this category.

1. Each candidate applying for admission in this category shall, along with the Admission Form, will submit following documents to the concerned department and photocopy of one complete set of Admission Form, along with all relevant documents after paging all the documents, will submit in the office of UIET, Sector 25, P.U. Chandigarh before the last date of submission of the form. If the candidate fails to submit the form complete in all respect within stipulated date in the concerned department or in the Campus Sports Department, his candidature will be rejected
 - a) Self-attested photocopy of sports certificates with photograph duly attested by the respective issuing authority / Head of the Institution of last attended / self-attested.
 - b) Self-attested photocopies of Class 10th and Class 10+2 and Bachelor's detailed marks certificates.
 - c) The undertaking of the sports achievements (**Annexure-I**) and attendance in sports grounds (**Annexure-II**)
 - d) List of players/ competitors of the concerned tournament duly attested by the respective issuing authority or Head of the Institution of last attended.
2. The D.U.I. has the authority to cancel admission at any time, if it is found that the candidate has obtained such admission on the basis of a false certificate or incorrect statement/record.
3. Candidates seeking admission under Sports category will be considered for admission only in the games / events / sports which are included in the Olympic Games / Asian Games / Commonwealth games immediately preceding the year of admission. Along with the games included in the above said tournaments, four games namely Chess, Cricket, Kho-kho and Yoga will also be considered as eligible sports disciplines for admission under reserved category of Sports (**Annexure-III**).
4. Reservation under Sports Category is meant only for those active sports-persons¹ who would participate in the Campus, University, State, National, International level Sports Tournaments. Such students will be considered for admission only if:
 - i. Their achievement in sports relates to their activities in any of three years immediately preceding the year of admission² (relaxable to 4 years in exceptional cases, on merit, for outstanding sportspersons³).
 - ii. They are otherwise also eligible for participation in Inter-College, Inter-University tournaments for at least one year as per Association of Indian Universities rule 2019-20 (<http://www.aiu.ac.in>)
 - iii. The Sports Merit will be prepared as per **Annexure – V**.

¹ Means a person attending the grounds regularly so as to appear himself for participation in the Inter-College and Inter-University Tournaments. However, his/her age falls within the age group which is eligible for participation in Inter-College/Inter-University Competition.

² Preceding three years means from 1st July 2017 to 30th June 2020.

³ Securing first three positions in International competitions under senior / junior category in the eligible sports disciplines as per Annexure III & V.

- iv. No document including undertaking etc. will be accepted after the last date of submission of Admission Form by the Campus Sports Department. However, in case any sports persons earns any achievement up to 30th June, 2020, he/she may submit a supplementary copy of the document to the Campus Sports Department along with additional Undertaking.
 - v. Sports Participation in the same game in two different competitions (irrespective of the event) is essential for the candidates seeking admission under this category within the prescribed period of three years i.e. from 1st July 2017 to 30th June 2020. The merit for admission in the Sports Category will be purely on the basis of criteria given in **Annexure-V**. However, the minimum level of sports participation to be considered for supporting certificates will be Inter school / Inter College /Cluster /District/ State Level Participations.
5. A committee constituted by the Vice-Chancellor shall prepare the sports merit of applicants applying under reserved category of Sports by screening the applications, conducting General Fitness Test, Skill & Game Performance Test and verifying the original Merit / Participation Sports Certificates of the applicants as per norms incorporated in **Annexure – V**. Only such applicants will be allowed to appear for the actual sports trials, whose application is found in conformity with the requirement/ qualifications mentioned in the Guidelines by the Campus sports Department. Candidates are to appear for sports trials in proper sports kit with all the original sports certificates and required academic certificates.
 6. The Campus Sports Department, Panjab University shall take an undertaking (**Annexure-II**) from the candidates that they will attend the grounds regularly and must have 75% of attendance in the sports ground and would also participate in the Inter-College, Inter-University, State, National and International sports tournaments. Their admission would be liable to be cancelled if the terms of the undertaking thus given are not adhered to.
 7. The order of precedence in the selection of candidates for admission will be as per **Annexure-V**.
 - i. Applicant securing higher marks in sports merit will be placed / given higher preference.
 - ii. If there is a tie within the same category, the tie shall be resolved by considering the 'academic merit' i.e. as per admission criteria of the concerned department and even then if there is tie, it will be resolved by the seniority in age i.e. date of birth of the candidate and such tie will be resolved by the concerned Department in which an applicant applied for admission.
 8. The inter-se merit of the candidates seeking admission to any course under the reserved category of Sports shall be determined only on the basis of their merit in Sports as per criteria in **Annexure-V**.
 9. It is mandatory to participate actively in all sports competitions if selected, and at least 75% attendance in Panjab University sports grounds is required to enable to sit in the examination for all the candidates admitted against reserved category of sports. The attendance certificates shall be issued by the Campus Sports Department in favour of each candidate whose attendance in sports grounds is at least 75% and admit card for examination shall be issued by the Chairperson only on the production of such a certificate.
 10. When a candidate is required to abstain from the Department for participation in Inter College / Inter-University / National / International / State Sports Tournaments, he/she shall give prior information to the Chairperson of the concerned Department.
 11. If a candidate admitted under the reserved category of Sports, remains absent from the grounds for regular practice for a continuous period of seven days without leave, his/her names shall be struck off the rolls by the Chairperson of the concerned Department on the recommendation of the Director Physical Education & Sports, Panjab University, Chandigarh.

12. Deficiency of equal numbers of lectures (theory, practical, seminars and tutorials etc.) shall be condoned for sportspersons for attending Coaching Camps and participation in various tournaments i.e. Inter Hostel and Inter-Department (Conducted by P.U. Campus Sports), Inter College, Inter-District, State, Inter-State, Inter-University, National and International level tournament.
13. In case a candidate does not attend the grounds for practice or does not participate in the P.U. Campus Sports Activities including Campus Annual Athletic Meet, Inter College Competition, Inter-University Tournaments on medical grounds, the Medical Certificate issued only by the University Chief Medical Officer will be accepted.

NOTE : In case a student remains present in the concerned Department for classes but absent in the grounds for sports then his/her Medical Certificate will not be accepted and his/her admission shall liable to be cancelled.

14. In case there is one association or more than one association or federation in any game the sports certificates issued by those State Associations will be considered which are recognized by concerned State Olympic Association and respective National Federation. For Interstate and National level competitions the certificates issued by only those National Federations will be considered which are duly recognized by the Indian Olympic Association or Ministry of Youth Affairs and Sport. In the case of Cricket, BCCI will be the competent authority. For international level competitions, the certificates issued by those National Federation will be considered which are duly recognized by the concerned Country's Olympic Association, such National Olympic Association should be duly recognized by International Olympic Committee.
15. Certificate on Letterhead will not be considered in the normal course. However, if the certificates are not issued by some sports Organization / Association in a particular game, those cases will be looked after separately by the screening committee on the recommendation of the Campus Sports Department.
16. The clause 4 (i) and (ii) will not be applicable for Arjuna Awardee/ Rajiv Khel Ratan Awardee / Padam Shree Awardee / Olympians in any game/sports with the condition that if such a candidate is successful in getting admission but barred for participation due to age bar then he/she will coach or groom a team of his expertise for at least five hours a week without seeking any remuneration.
17. The admission of students under the reserved category of sports will be provisional until the verification of sports certificates from the concerned issuing authority.
18. No invitational / Prize Money / Ranking tournament will be considered for admission under the reserved category of sports. Further, marks will not be given for tournaments which are held more than once a year.
19. The sportspersons who have represented in the recognized competitions recognized by Ministry of Youth Affairs and Sports, Olympic Games by International Sports Federation, Commonwealth Games by Commonwealth Games Federation, Asian Games by Olympic Council of Asia, Asian Championships by International Sports Federations, South Asian Federation Games (SAF) by South Asian Sports Council, Paralympic Games by International Paralympic Committee, World University Games by FISU/ Asian University Games / Championship by AUSF (Asian University Sports Federation), University games by AIU, National games and Championships by IOA/NSF/MYAS/SGFI, State Level Games by State Sports Association / State Directorate of Education/ School Boards and Inter College by concerned University will only be eligible for admission under reserved category of sports in Panjab University, Chandigarh.

UNDERTAKING FOR ACHIEVEMENTS IN SPORTS

I, _____ (name), son/daughter of
 Shri _____ (father's name), born on
 _____ of _____ (address) hereby solemnly
 declare and affirm as under:—

1. That as Sportsman/Sportswoman in _____ (name of discipline), I
 have represented the team(s) in the competition(s) on date(s) and also of named position(s) as
 indicated in the table below :—

Sr. No.	Sports Disciplines	Team Represented	Name of the competition & year	Venue/Date	Position Secured
1					
2					
3					

2. That the certificate(s) mentioned below are produced by me in support of the above are authentic :

- (i)
- (ii)
- (iii)

3. I understand that in case the information/documents supplied by me are found to be false,
 incorrect or forged, my admission will stand cancelled and I shall be liable for criminal action.

(Signature of the applicant)

ANNEXURE-II

UNDERTAKING FOR ATTENDANCE IN SPORTS GROUND

I, _____ son/daughter of _____
resident of _____ do hereby
declare as under :-

- (i) That I am seeking admission to the Department of _____ under the Sports Category.
- (ii) That in case I am admitted to the above said department I shall regularly attend the grounds for practice and I shall also participate in P.U. Campus Sports Activities including P.U. Campus Annual Athletic Meet/Inter-College/Inter-University/National/International Sports Tournament on behalf of the P.U. Campus and the Panjab University if selected.
- (iii) That in case I fail to regularly attend the Grounds for practice or fail to participate in the tournaments as and when required, my admission to the Department of _____ shall be liable to be cancelled.
- (iv) That in case my admission to the Deptt. of _____ is cancelled due to my failure to regularly attend the grounds for practice or to participate in the P.U. Campus Sports Activities (including Annual Athletic Meet) / Inter-University / National / International Sports Tournaments as may be required by the Campus Sports Department, Panjab University, Chandigarh. I shall have no claim on any account whatsoever against the Department or against the University.

(Signature of the applicant)

**LIST OF SPORTS DISCIPLINES ELIGIBLE FOR ADMISSION UNDER
RESERVED CATEGORY OF SPORTS**

Sports disciplines to be considered for admission under reserved category of sports will be based on the following conditions:-

- 1) The sports disciplines should also be part of proceeding Olympic / Asian Games / Commonwealth Games immediately preceding the year of admission.
- 2) Apart from the above, the following four sports disciplines are included based on popularity / indiginity.
 - a) Chess
 - b) Cricket
 - c) Kho-kho
 - d) Yoga

CRITERIA FOR GENERAL FITNESS TEST, SKILL & GAME PERFORMANCE TEST FOR ADMISSION UNDER RESERVED CATEGORY OF SPORTS

General Fitness Test			
It is essential for the candidates to qualify any one of the following General Fitness Test items for considerations of admission in Archery, Chess, Shooting and any two of the following fitness test items for consideration of admission in other games / sports as per the following standards.			
1.	Strength	Standing broad jump 1.65 mts. For Men 1.15 mts. For Women	Two attempts allowed
2.	Endurance	1000 mts. Run/Walk 5.00 minutes for Men 6.00 minutes for Women	One attempt allowed
3.	Speed	50 mts. Dash 8.00 seconds for Men 9.00 seconds for Women	One attempt allowed

Note: It is essential to qualify the General Fitness Test for appearing in the Skill & Game Performance test.

1. No Physical Fitness Test for specially challenged candidates / players.
2. All the candidates are to appear in the General Fitness Test in proper sports kit.
3. Any injury / casualty caused to the applicant during sports trials shall be the sole responsibility of the applicant.

Skill and Game Performance Test	
It is essential for the candidate to qualify the Skill and Game Performance Test for consideration of admission.	
1.	Fundamental Skills in the concerned game
2.	Game Performance in Trials.

Note: It is essential to qualify the Skill & Game Performance Test for Verification of Original Sports Certificates for awarding Marks.

Merit / Participation Sports Certificates
Maximum 100 Marks for Merit / Participation Sports Certificates
Maximum 100 Marks for Merit / Participation Sports Certificate as per the criteria in Annexure-V. Only the Highest Merit / Participation Sports Certificate will be considered for Marking.

**CRITERIA FOR MARKING OF MERIT / PARTICIPATION SPORTS
CERTIFICATE OUT OF MAXIMUM 100 MARKS**

Note: – Tournaments/Championships other than Inter-University/Inter College/Inter School will be considered for Gradation provided they are recognized by International Olympic Committee/ Indian Olympic Association/respective National Federation / State Association / BCCI / SGFI / **MYAS***

Level of Game/ Sport Competition(s)	Ist	IIInd	IIIrd	Participation
<u>CATEGORY 'A'</u>				
1. Sports performance as a player in the Olympic Games / Paralympic Games (under senior / open category).	100	97	95	91
2. Sports performance as a player in World Cups/ Championship (Four Year Cycle) under senior / open category	97	95	93	89
3. Sports performance as a player in Asian Games (under senior / open category)	95	93	91	87
4. Sports performance as a player in Asia Cup / Asian Championship (Four Year Cycle) under senior / open category	93	91	89	85
5. Sports performance as a player in Commonwealth Games (under senior / open category).	91	89	87	83
6. Sports performance as a player in Commonwealth Championships (Four Year Cycle) (under senior / open category).	89	87	85	81
7. Sports performance as a player in World cups / World Championships (Two Years Cycle) under senior / open category	87	85	83	79
8. Sports performance as a player in Asia Cup / Asian Championship (Two Years Cycle) under senior/open category.	85	83	81	77
9. Sports performance in Commonwealth Championships (Two Years Cycle) under senior / open category.	83	81	79	75
10. Sports performance as a player in World University games / World University championships (Two year Cycle)	81	79	77	73
11. Sports performance as a player in the World Cup / Championship	79	77	75	71

(one year cycle) under senior / open category.				
12. Sports performance as a player in Asia Cup / Asian Championship (One Year Cycle) under senior / open category / Sports performance as a player in Common Wealth Championships (One Year Cycle) under senior / open category / Sports performance as a player in South Asian Games (under senior / open category), Asian University Games and Championships. Note: Marks for World Cup/ Championships, Asian Cup/ Championships / Common wealth Championships under Junior/ Youth/ Cadet categories will be awarded $\frac{3}{4}$ of marks awarded to the respective senior categories of same tournament / championship / category e.g. for Junior World Cup / Championship for 1st $87 \times \frac{3}{4} = 65.25$, for IInd $85 \times \frac{3}{4} = 63.75$, for IIIrd $83 \times \frac{3}{4} = 62.25$ and so on.	77	75	73	69
CATEGORY'B' 1. Sports performance as a player in National Games (under senior/ open category)	50	48	46	42
2. Sports performance as a player in National University Games / Inter-Zonal Universities Games for Universities (under senior / open category) / Sports performance as a player in senior National / Inter-State Championships for seniors / Federation Cup for seniors / khelo India school games / Khelo India University Games (under 21) // Sports performance as a player in Khelo India School Games / SGFI National School Games. Sports performance as a player in Junior National / Cadet Nationals / Youth Nationals	48	46	44	40
3. Sports performance as a player in Zonal University Championships / National Zonal Championships (under senior and open category)	46	44	42	38
CATEGORY'C' 1. Sports performance as a player in A division Inter College tournaments other than professional Universities/ Deemed Universities /	36	34	32	28

Agricultural Universities / Law Universities / Technical and Management Universities /Senior State Championship / Inter-District Championships / State School Games / Junior / Cadet / Youth State Championship. Position as a player in Inter-University Tournament / Competitions for professional Universities / Deemed Universities / Agricultural Universities / Law Universities / Technical and Management Universities, School Nationals other than SGFI				
CATEGORY 'D' 1. Sports performance as a player in inter-college of professional universities / residential universities / PU Campus Championships / B and C division Intercollege.	26	24	22	Not Eligible
Note: The certificates not mentioning the level of tournament i.e. Senior /Junior / Youth / Schools will be considered as per the following age criteria: 1. Under 17..... Junior 2. Under 19.....Youth 3. Above 19.....Senior * BCCI: Board of Control for Cricket in India * SGFI: School Games Federation of India * MYAS: Ministry of Youth Affairs & Sports				

Note:

1. Sports Certificate of Invitational / Memorial /Open/ Prize Money League/ Ranking competitions will not be considered for admission under the reserved category of sports.
2. Merit / Participation Sports Certificates of preceding three years will be considered from 01st July 2017 to 30th June 2020.
3. Applicants are required to upload Self-Attested copies of two Merit / Participation Sports Certificates.
4. Only the Highest Merit / Participation Sports Certificates will be considered for Marking.

APPENDIX A
SUB APPENDIX A1
(For Panjab University Institutes only)

Specimen of Scheduled Caste/Scheduled Tribe Certificate

The Caste/Tribe Certificate should necessarily contain the following information about:

- (a) Name of the person : _____
- (b) Father's name : _____
- (c) Permanent place of residence : _____
- (d) Name of the Caste/ Tribe : _____
- (e) Constitutional order under which the caste/ tribe has been notified
- (f) Signature of issuing authority along with the designation, seals and date

Authorities Empowered to issue SC/ST certificate

1. District Magistrate/ Additional District Magistrate/ Collector/Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/1st Class Stipendiary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.
2. Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/ Presidency Magistrate.
3. Revenue Officer not below the rank of Tehsildar.
4. Sub-Divisional Officer of the area where the candidate and/or his/her family normally resides.
5. Administrator/ Secretary to Administrator/ Development Officer (Lakshdweep Islands)

SUB APPENDIX A2 (FORM I TO V)
(For Panjab University Institutes only)
Specimen of PwD Certificate

Detailed information is available at Ministry of Social Justice and Empowerment, Government of India website: www.socialjustice.nic.in as per PART-II Section 3, subsection (i) Notification as amended on 30th December, 2009 for persons with disability (Equal Opportunities and full participation Rules, 1996) (Copies of Form-I, Form-II, Form-III and Form-IV, attached).

Form-I
APPLICATION FOR OBTAINING DISABILITY CERTIFICATE BY PERSONS
WITH DISABILITIES

1. Name: (Surname)_____ (First name)_____
(Middle name) _____
2. Father's name:_____ Mother's name:_____
3. Date of Birth: (date) _____ / (month) _____ / (year) _____
4. Age at the time of application: _____ years
5. Sex: _____ Male/Female/Transgender
6. Address:
 - (a) Permanent address_____
 - _____
 - (b) Current Address (i.e. for communication)
 - _____
 - _____
 - (c) Period since when residing at current address
 - _____
 - _____
7. Educational Status (Pl. tick as applicable)
 - I. Post Graduate
 - II. Graduate
 - III. Diploma
 - IV. Higher Secondary
 - V. High School
8. (i) Did you ever apply for issue of a disability certificate in the past_____ YES/NO
(ii) If yes, details:
 - a. Authority to whom and district in which applied
 - _____
 - b. Result of application
9. Have you ever been issued a disability certificate in the past? If yes, please enclose a true copy.

Declaration: I hereby declare that all particulars stated above are true to the best of my knowledge and belief, and no material information has been concealed or misstated. I further, state that if any inaccuracy is detected in the application, I shall be liable to forfeiture of any benefits derived and other action as per law.

(Signature or left thumb impression of person with disability, or of his/her legal guardian in case of persons with mental retardation, autism, cerebral palsy and multiple disabilities)

Date:
Place:
Encl:
1. Proof of residence (Please tick as applicable)

- a. ration card,
 - b. voter identity card,
 - c. driving license,
 - d. bank passbook,
 - e. PAN card,
 - f. Passport,
 - g. Telephone, electricity, water and any other utility bill indicating the address of the applicant,
 - h. A certificate of residence issued by a Panchayat, municipality, cantonment board, any gazette officer, or the concerned Patwari or Head Master of a Govt. school,
 - i. In case of an inmate of a residential institution for persons with disabilities, destitute, mentally ill, etc., a certificate of residence from the head of such institution.
4. Two recent passport size photographs

(For office use only)

Date:

Place:

Signature of issuing authority

Stamp

Recent PP Size
Attested
Photograph
(showing face
only of the person
with disability)

Form-II

Disability Certificate (In cases of amputation or complete permanent paralysis of limbs Or dwarfism and in case of blindness)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

Certificate No. _____
Date: _____

This is to certify that I have carefully examined Shri/Smt./Kum. _____
son/wife/daughter of Shri _____ Date of Birth (DD/MM/YY) _____
Age _____ years, male/female, Registration No. _____ permanent
resident of House No. _____ Ward/Village/Street _____ Post
Office _____, District _____, State _____, whose photograph is
affixed above, and am satisfied that:

(A) He/she is a case of:

- locomotor disability
- dwarfism
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is _____

(C) He/She has _____ % (in figure) _____ percent (in words)
permanent locomotor disability / dwarfism / blindness in relation to his/her
_____ (part of body) as per guidelines (..... number and
date of issue of the guidelines to be specified).

2. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

Signature /Thumb
impression of the
person in whose favour
disability certificate is
issued

Signature and Seal of Authorised Signatory
of Notified Medical Authority

**Form-III
Disability Certificate**

(In case of multiple disabilities)

Recent PP Size
Attested
Photograph
(showing face only
of the person with
disability)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

Certificate No. _____

Date: _____

This is to certify that we have carefully examined
Shri/Smt./Kum. _____ son/wife/daughter of
Shri _____ Date of Birth (DD/MM/YY) _____ Age _____ years,
male/female, Registration No. _____ permanent resident of House
No. _____ Ward/Village/Street _____ Post
Office _____, District _____, State _____, whose photograph is
affixed above, and are satisfied that:

(A) He/she is a case of Multiple Disability. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (..... Number and date of issue of the guidelines to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

Sr. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy Cured			
4.	Dwarfism			
5.	Cerebral Palsy			
6.	Acid attack Victim			
7.	Low vision	#		
8.	Blindness	Both Eyes		
9.	Deaf	£		
10.	Hard of Hearing			
11.	Speech and language disability			
12.	Intellectual disability	X		
13.	Specific Learning Disability			
14.	Autism Spectrum Disability			
15.	Mental-illness	X		
16.	Chronic Neurological conditions			
17.	Multiple sclerosis			
18.	Parkinson's disease			
19.	Hemophilia			
20.	Thalassemia			
21.	Sickle Cell disease			

(B) In the Light of the above, his /her overall permanent physical impairment as per guidelines (..... number and date of issue of the guidelines to be specified), is as follows

In figures :- _____ percent

In words: _____ percent

2. This condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:

(i) not necessary.

Or

(ii) is recommended/after _____ years _____ months, and therefore, this certificate shall be valid till (DD / MM /YY) _____

@ - e.g. Left/Right/both arms/legs

- e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate
---------------------------	----------------------	---

5. Signature and seal of the Medical Authority

Nature of Document	Date of Issue	Details of authority issuing certificate
---------------------------	----------------------	---

Signature /Thumb impression of the person in whose favour disability certificate is issued
--

Form-IV**Certificate of Disability
(In cases other than those mentioned in Forms II and III)****(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING
THE CERTIFICATE)**Recent PP Size
Attested
Photograph
(showing face
only of the person
with disability)

Certificate No. _____

Date: _____

This is to certify that I have carefully examined Shri/Smt./Kum. _____
son/wife/daughter of Shri _____ Date of Birth (DD/MM/YY) _____ Age
_____ years, male/female, Registration No. _____ permanent resident
of House No. _____ Ward/Village/Street _____ Post
Office _____, District _____, State _____, whose photograph is
affixed above, and am satisfied that he/she is a case of _____ disability.
His/her extent of percentage physical impairment/disability has been evaluated as per guidelines
(to be specified) and is shown against the relevant disability in the table below:-

Sr. No.	Disability	Affected Part of Body	Diagnosis	Permanent physical impairment/mental disability (in %)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy Cured			
4.	Cerebral Palsy			
5.	Acid attack Victim			
6.	Low vision	#		
7.	Deaf	£		
8.	Hard of Hearing			
9.	Speech and language disability			
10.	Intellectual disability	X		
11.	Specific Learning Disability			
12.	Autism Spectrum Disability			
13.	Mental-illness	X		
14.	Chronic Neurological conditions			
15.	Multiple sclerosis			
16.	Parkinson's disease			

17.	Haemophilia			
18.	Thalassemia			
19.	Sickle Cell disease			

(Please strike out the disabilities which are not applicable)

2. The above condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:

(i) not necessary.

Or

(ii) is recommended/after _____ years _____ months, and therefore, this certificate shall be valid till (DD / MM /YY) _____

@ - e.g. Left/Right/both arms/legs

- e.g. Single eye/both eyes

£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document Date of Issue Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority)
(Name and Seal)

Countersigned

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Signature /Thumb
impression of the person
in whose favour disability
certificate is issued

Note: 1. "In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District"

Form-V

(intimation of rejection of Application for Certificate of Disability)

No. _____

Dated _____

To

(Name and address of applicant
For Certificate of Disability)

Sub: Rejection of Application for Certificate of Disability

Sir/Madam,

Please refer to your application dated _____ for issue of a Certificate of Disability for the following disability:

2. Pursuant to the above application, you have been examined by the undersigned / Medical Authority on _____, and I regret to inform that, for the reasons mentioned below, it is not possible to issue a Certificate of Disability in your favour:-

(i)

(ii)

(iii)

3. In case you are aggrieved by the rejection of your application, you may represent to _____, requesting for review of this decision.

Yours faithfully,

(Authorized Signatory of the notified Medical Authority)
(Name and Seal)

SUB APPENDIX A3
(For Panjab University Institutes only)

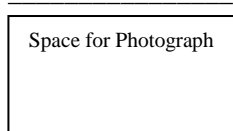
CERTIFICATE FOR BACKWARD CLASS*

(Persons belonging to OBC/SBC will not be considered under this category)

This is to certify that Shri / Smt/ Kumari _____ son/daughter of Sh. _____
village _____ District / Division _____ in
the state of Punjab belongs to _____ community which is recognized as a Backward
Class under the Government of Punjab, Department of Welfare of SCs and BCs vide notification No.
_____ dated _____ Shri / Smt/ Kumari
_____ and / or his / her family ordinarily reside(s) in the _____ District /
Division of the State of Punjab.

This is also to certify that he/she does not belong to the persons / sections (creamy Layer) mentioned
in the column 3 of the Schedule to the Government of Punjab, Department of Welfare and SCs and
BCs notification No. 1/41/93-RCI/ dated 17-01-1994, as amended vide Notification No. 1/41/93-
RCI/1597 dated 17-08-2005, Notification No. 1/41/93-RCI/209 dated 24-02-2009 and notification No.
1/41/93-RCI/609 dated 24.10.2013.

Date of Issuance _____



Signature of Issuing Authority: _____

Designation _____
Date: _____
Place: _____

Note: The term "Ordinarily" used here will have same meaning as in Section 20 of Representative of People Act, 1950

Authorities Empowered to issue Backward Class Certificate	Criteria for Admission under this Category
<ol style="list-style-type: none">1. Deputy Commissioner2. Additional Deputy Commissioner3. Sub Divisional Magistrate4. Executive Magistrate5. Tehsildar6. Naib Tehsildar7. Block Officer8. District Revenue Officer	<ol style="list-style-type: none">1. 5% Seats Reserved for persons belongs to this category2. Candidate must belong to non-creamy layer as defined by the latest rules of Govt. Of India3. * A BC Certificate issued by a competent authority in any format and on any date shall be accepted by PU.4. Candidate whose certificate is older than one year from the date of issue must submit the self declaration as per Sub Appendix A 3(A).

SUB APPENDIX A3 (A)

Self declaration Performa to be submitted by the person belonging to backward class category at the time of Admission

I, _____ S/O, D/O
_____ Resident of _____
_____ Village / Tehsil/ City
_____ District _____ hereby
declare that I _____ belong to
_____ caste and this caste has been declared as backward class by
State Government as per letter No. _____ dated _____.

I hereby declare that, I do not come under Column-3 of the Schedule to the Government of Punjab, Department of Welfare of SCs and BCs notification No. 1/41/93-RC-1/459 dated 17.01.94 as amended vide notification No. 1/41/93-RCI/1597 dated 17-08-1005, notification No. 1/41/93-RCI/209 dated 04.02.2009 and notification No. 1/41/93-RCI/609 dated 24.10.2013.

Declarant

Place: _____
Date: _____

Verification:

I hereby declare that the above submitted information is correct as per my understanding and nothing has been concealed herein. I am well versed with the facts that I would be liable to face any punishment prescribed by law in case my above information is found to be false and the benefits granted to me (the applicant) will be withdrawn.

Declarant

Place: _____
Date: _____

SUB APPENDIX A4

(For Panjab University Institutes only)

Certificate for Admission under Defence Category

Dispatch No. _____

Dated _____

Certified that _____ son/daughter/spouse of
_____ Rank _____ (if applicable) an applicant for admission to
_____ course(s) in the
department of _____ Panjab University, is

1. Son/Daughter/Spouse of such Defence and Central Armed Police Force (CAPF)* personnel who died in action on _____ during _____. (Only those who are wholly dependent on such personnel shall be considered).
2. Son/Daughter/Spouse who is wholly dependent on such Defence and CAPF personnel who were incapacitated/died on _____ while in service.
3. Defence and CAPF personnel who were incapacitated while in service.
4. Son/daughter/spouse of ex-servicemen who are wholly dependent on them.
5. Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
6. Ex-servicemen.
7. Serving Defence personnel and CAPF personnel.

Name of the Certifying Officer

Designation _____

Signature of authorized Military/ Central Armed Police
Forces Officer
(with official seal)

* CAPF earlier known as Para-military forces, includes Assam Rifles (AR), Border Security Force (BSF), Central Industrial Security Force (CISF), Central Reserve Police Force (CRPF), Indo Tibetan Border Police (ITBP), National Security Guard (NSG), Sashastra Seema Bal (SSB) etc.

SUB APPENDIX A5

(For Panjab University Institutes only)

Certificate from Dependants of Riot/Terrorist Victims

Office of Deputy Commissioner

(Name of District)

Certified that Mr./Ms./Mx. _____
son/daughter/husband/wife/brother/sister of _____son/daughter of
_____ resident of _____ is a
riot/terrorist affected person (killed/incapacitated (including disability caused due to
financial/capital/asset loss forced displacement)) with a Red Card holder no.
_____. This certificate is being issued for the purpose of admission.

No.

Signature of Deputy Commissioner

Dated:

SUB APPENDIX A6

(For Panjab University Institutes only)

Certificate for Children/Grandchildren of Freedom Fighters

Dispatch No: _____

Dated: _____

Certified that Mr./Ms./Mx. _____ (freedom fighter)
son/daughter of Shri _____ of Village _____ Post
Office _____ Tehsil _____ District _____ and Parent
/Grand Parent of Mr./Ms./Mx. _____ (Name of the Candidate), a
bonafide political sufferer and has been drawing freedom fighter's pension from _____
Treasury or has been awarded Tamar Patra for his/her political suffering.

Place:

Date:

*Deputy Commissioner

(with Seal of the Court)

* Certificate from no other than Deputy Commissioner will be accepted.

** In case the certificate is found to be false or incorrect, the candidate will be render
himself/ herself liable for criminal prosecution.

SUB APPENDIX A7

(For Panjab University Institutes only)

(GAP YEAR UNDERTAKING)

I _____ son/daughter of _____ Resident of _____ do hereby declare as under-

- i) That I am seeking admission to the _____ under PULEET-2020.
- ii) That I was engaged in _____ during the gap year i.e. _____.
- iii) That I was not involved in any offence/unlawful activities during the gap year _____.

DATE:

PLACE:

DEPONENT

VERIFICATION

I solemnly declare that the above statement is correct to the best of my knowledge and belief and that nothing has been concealed there in.

DATE:

PLACE:

DEPONENT

SUB APPENDIX B1**CERTIFICATE OF DEATH/DISABLEMENT OF MILITARY/PARAMILITARY PERSONNEL
(For CCET only)**

Certified that Mr./Ms. _____, is the son/daughter/spouse of Shri _____ rank _____. Shri _____ was killed/disabled to the extent of 50% or more, in action/not-in-action but otherwise, while being in service, on _____ (date). His death/disability is entirely attributable to military service. Shri _____ was boarded out of service on _____ (date) with disability attributable to military service.*

Date

Seal

Signature of Authorized Officer

****Strike out whichever is not applicable***

SUB APPENDIX B2

**CERTIFICATE OF GALLANTRY AWARD TO MILITARY/PARAMILITARY PERSONNEL
(CCET only)**

Certified that Mr./Ms. _____, is the
son/daughter/spouse of Shri _____ rank
_____ who was
awarded _____ in the year _____.
(Name of the award*)

Date

Seal

Signature of Authorized Officer

*ParamVir Chakra (PVC), Ashok Chakra (AC), Sarvottam Yudh Seva Medal (SYSM), MahaVir Chakra (MVC), Kirti Chakra (KC), Uttam Yudh Seva Medal (UYSM), Vir Chakra (VrC), Shaurya Chakra (SC), President's Police Medal for gallantry, YudhSeva Medal (YSM), Sena/ Nausena/ Vayusena Medal, Police Medal for gallantry, Mention in Despatches, Other award winners

SUB APPENDIX B3

**CERTIFICATE OF DEPENDENCE ON MILITARY/DEFENCE/PARAMILITARY PERSONNEL
(CCET only)**

Certified that Mr./Ms. _____ is the dependent
son/daughter/spouse of Shri _____ rank _____.

Shri _____ is

- (i) *an ex-serviceman and he retired on _____
- (ii) *currently employed in Unit _____

Date

Seal

Signature of Authorised Officer

Note: (i) The certificate in case of ex-servicemen is to be signed by the Competent Authority.
(ii) The certificate in case of serving personnel is to be signed by the Commandant of the Unit.

****Strike out whichever is not applicable***

SUB APPENDIX B4
(CCET Only)

Person with Disability (PwD) Certificate
NAME & ADDRESS OF THE INSTITUTE/HOSPITAL

Affix Passport
size photograph
here

Certificate No. _____ **Date** _____

This _____ is _____ certified _____ that

Shri/Smt/Kum _____ Son/wife/daughter of

Shri _____ age _____ sex _____ identification mark(s)

_____ is suffering from permanent disability of following category:

A. Locomotor or cerebral palsy:

BL – Both legs affected but not arms

BA- Both arms affected Impaired reach Weakness of grip

BLA – Both legs and both arms affected

OL-One leg affected (right or left)

a. Impaired reach

b. Weakness of grip

c. Ataxic

OA –One arm affected

a. Impaired reach

b. Weakness of grip

c. Ataxic

BH-Stiff back and hips (cannot sit or stoop)

MW-Muscular weakness and limited physical endurance.

B. Blindness or Low Vision:

(i) B-Blind

(ii) PB-Partially Blind

C. Hearing impairment:

(i) D-Deaf

(ii) PD-Partially Deaf

*(Delete the category whichever is not applicable)

2. This condition is progressive/non-progressive/likely to improve/not likely to improve. Re-assessment of this case is not recommended after a period of ____ years ____ months.*

3. Sh./Smt./Kum.....meets the following physical requirement for discharge of his/her duties:-

(i) F-can perform work by manipulating with fingers.	Yes/No
(ii) PP-can perform work by pulling and pushing.	Yes/No
(iii)L-can perform work by lifting.	Yes/No
(iv) KC-can perform work by kneeling and crouching.	Yes/No
(v) B-can perform work by bending.	Yes/No
(vi) S-can perform work by sitting.	Yes/No
(vii) ST-can perform work by standing.	Yes/No
(viii) W-can perform work by walking.	Yes/No

(ix) SE-can perform work by seeing.	Yes/No
(x) H-can perform work by hearing/speaking.	Yes/No
(xi) RW-can perform work by reading and writing.	Yes/No

*Strike out which is not applicable.

Percentage of disability is _____percent.

(Dr. _____)	(Dr. _____)	(Dr. _____)
Regd.No.	Regd. No.	Regd. No.
Member	Member	Chairperson Medical Board

Countersigned by the
Medical Superintendent/CMO
Head of Hospital (with seal)

Recent attested
photograph showing
the disability affixed here

SUB APPENDIX B5

**(GAP YEAR AFFIDAVIT)
(CCET Only)**

(To be submitted on non-judicial stamp paper of the value of Rs. 5/- or above, duly attested by Notary Public/1st Class Magistrate)

AFFIDAVIT

I _____ son/daughter of
_____ Resident of _____ do hereby declare

as under-

- i) That I am seeking admission to the _____ under PULEET-2020.
- ii) That I was engaged in _____ during the gap year
i.e. _____.
- iii) That I was not involved in any offence/unlawful activities during the gap year _____.

DATE:

PLACE:

DEPONENT

VERIFICATION

I solemnly declare that the above statement is correct to the best of my knowledge and belief and that nothing has been concealed there in.

DATE:

PLACE:

DEPONENT

SUB APPENDIX B6
(CCET Only)

CERTIFICATE OF CASTE

(To be submitted by Scheduled Castes/Scheduled Tribes candidates only)

Dispatch No. _____

Dated _____

Certified that Mr./Ms. _____
son/daughter of Shri _____, resident of _____,
District _____, State _____ is a member of the Scheduled
Castes/Tribes and belongs to _____ caste/tribe which has been
recognized as a Scheduled Caste/Tribe vide notification
No. _____ dated _____ issued by
Government of _____ (State).

Name of the
Certifying Officer _____
Designation _____

Signature of the Revenue Officer of the
District concerned, not below the rank
of Tehsildar

Date

Seal

Note: Certificate, if issued by other than mentioned authority, notification of Government must be included.

SUB APPENDIX B7
(CCET Only)

UNDERTAKING BY THE CANDIDATE/STUDENT
(2020-21)

1. I _____ S/o ,D/o of Mr / Mrs/ Ms _____ have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard.
2. I have received a copy of the UGC/AICTE Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, (2009) and have carefully gone through it.
3. I hereby undertake that:
 - I will not indulge in any behaviour or act that may come under the definition of ragging
 - I will not participate in or abet or propagate ragging in any form.
 - I will not hurt anyone physically or psychologically or cause any other harm.
4. I hereby agree that if found guilty of any aspect of ragging, I may be punished as per the provision of the UGC/AICTE Regulations mentioned above and/or as per the law in force.
5. I hereby affirm that I have not been expelled or debarred from admission by any Institution.
6. I will not possess/carry any lethal weapon on the College Campus and if any weapon is recovered from me, I be rusticated.
7. I have never been convicted under any criminal offence. No F.I.R. is registered against me and no criminal proceedings are pending against me.

OR

F.I.R./s is/are registered against me & criminal proceedings are pending in the court of _____ at _____. However, I assure the College authority of my good conduct and behaviour as per University admission rules.

Signature:

Name:

Address:

Verification:

That nothing has been concealed in the undertaking & facts mentioned from Sr. No. 1 to 8 are correct & true to the best of my knowledge & belief.

Signature:

Name:

Address:

Dated: _____

Place: _____

SUB APPENDIX B8

(CCET Only)

UNDERTAKING BY THE PARENT/GUARDIAN

(2020-21)

1. I _____ F/o, M/o, G/o _____ have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard as well as the UGC/AICTE Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, (2009).
2. I assure you that the my son/daughter/ward will not indulge in any act of ragging.
3. I hereby agree that if he/she is found guilty of any aspect of ragging, he/she may be punished as per the provision of the UGC/AICTE Regulations and/or as per the law in force.

Signed this _____ day of _____ month
of _____ year.

Signature:

Name:

Address:

SUB APPENDIX B9
(CCET Only)

Government of
(Name & Address of the authority issuing the certificate)

INCOME & ASSEST CERTIFICATE TO BE PRODUCED BY ECONOMICALLY
WEAKER. SECTIONS.

Certificate No..... Date:.....

VALID FOR THE YEAR.....

This is to certify that
Shr./Smt./Kumari.....son/daughter/wife of
.....permanent resident of
Village/Street..... Post Office..... District
..... in the State/Union Territory..... Pin Code
..... whose photograph is attested below belongs to Economically
Weaker Sections, since the gross annual income* of his/her family** is below Rs. 8 Lakh
(Rupees Eight Lakh Only) for the financial year..... His/her family does not
own or possess any of the following assets***:

- I. 5 acres of agricultural land and above;
- II. Residential flat of 1000 sq. ft. and above;
- III. Residential plot of 100 sq. yards and above in notified municipalities;
- IV. Residential plot of 200 sq. yards and above in areas other than the notified municipalities.

2. Shri/Smt/Kumari.....belongs to the.....caste
which is not recognized as a Scheduled Caste, Scheduled Tribe and Other Backward
Classes (Central List)

Signature with seal of Office.....
Name.....
Designation.....

Recent
Passport size
attested
photograph
of the
applicant

*Note 1: Income covered all sources i.e. salary, agriculture, business, profession, etc.

**Note 2: The term 'Family' for this purpose include the person, who seeks benefit of reservation, his/her parents and siblings below the age of 18 years as also his/her spouse and children below the age of 18 years

***Note 3: The property held by a 'Family' in different locations or different places/cities have been clubbed while applying the land or property holding test to determine EWS status.

GENERAL RULES

1. The result of the Entrance Test shall, *ipso facto*, not entitle a candidate to get admission in a college/centre concerned where he/she intends to seek admission. It will be the responsibility of the candidate to make sure about his/her eligibility and fulfillment of such other conditions as may be prescribed for admission in the rules and regulations of college/centre concerned. Merely because a candidate is allowed to appear in the Entrance Test does not mean that he/she is eligible and his/ her appearance therein will not stop or debar the college/centre concerned from satisfying itself about his/her eligibility at any subsequent stage.

Notwithstanding anything contained in this prospectus, the eligibility conditions for admission to any particular course shall be governed by the respective rules/regulations as enshrined in the P.U. Calendar, volumes I, II and III (latest editions) and / or the general guidelines for admissions/ Handbook of Information-2020 issued by the university and / or decisions of the university senate/ syndicate. In case of any conflict or inconsistency between the prospectus on one hand and the aforesaid Panjab University rules and regulations/ guidelines / Handbook of Information-2020/ decisions of Senate/ Syndicate, on the other, the latter shall prevail.

2. The Entrance Test will be held on **18-10-2020 (Sunday)** from **01:00 p.m. to 02:40 p.m.** at **CHANDIGARH and HOSHIARPUR** only.
3. Once the candidate has submitted the Online Entrance Test Form, any change in the Form, including category once marked, shall not be allowed.
4. A candidate desirous of taking the Entrance Test should submit his/her fee in any branch of State Bank of India using website generated Challan latest by **05-10-2020 (Monday)** up to **4:00 p.m.**
5. The last date for completing the Entrance Form including uploading of photograph, signature with rest of the information on the website is **07-10-2020 (Wednesday)**.
6. The fee for the Entrance Test once paid shall not be refunded.
7. **The medium of examination shall be ENGLISH only.**
8. Special arrangements for amanuensis (writer of an answer):
A candidate may be allowed the help of an amanuensis (writer) if he/she is:
 - (i) Blind
OR
 - (ii) Permanently disabled from writing with his/her own hand.
 - (iii) Temporarily disabled from writing on account of fracture of the right or left arm, forearm or dislocation of a shoulder elbow or wrist etc. The candidate shall produce a certificate from a Professor of the specialty concerned of a Medical College and where there is no Medical College, from the Chief Medical officer of the District concerned to the effect that the candidate is unable to write his/her answer-books because of the temporary disablement.
9. 30 minutes extra would be given to the visually handicapped/persons with disability (PwD).
10. Every candidate is required to hand over both the **OMR Answer Sheet** and the **Question Booklet** to the Centre Superintendent/Invigilator when the time allowed for the Entrance Test is over, even if she/he has not attempted any question. No page/part of the **Question Booklet/ OMR Answer Sheet** is to be removed/ torn/taken out of the Test Centre under any circumstances, failing which the candidate shall be straight disqualified from the Entrance Test.
11. The use of calculators is not allowed.
12. The University will provide a logarithmic table. Borrowing or carrying the log table or other such material is not allowed.
13. No candidate shall be allowed to leave the examination hall/room before the expiry of the time allotted for the respective paper.

14. Rough work, if any, is to be done only in the space provided in the **Question Booklet** and nowhere else. No rough work shall be done on the **OMR Answer Sheet** under any circumstances.
15. Any candidate who carries any telecommunication equipment such as a pager, cellular phone, wireless set, Bluetooth device, etc. inside the examination hall shall be expelled from the examination hall & disqualified.
16. If any candidate who submits multiple Online Entrance Test Forms for the same Course his/her candidature shall be considered only on the basis of one Form.
17. The candidates must bring their own stationery items such as **Black Gel Pen. Borrowing of material inside the Test Centre is strictly prohibited.**
18. **There shall be Negative Marking for Wrong Answers i.e. marks will be deducted for wrong answers.** If for each correct answer 1 mark is to be awarded, for a wrong answer $\frac{1}{4}$ mark will be deducted.
19. **There shall be no re-evaluation/re-checking/re-assessment of answer-sheets under any of the circumstances. Request for seeing the Question Booklet / Answer Sheets by the candidates shall not be entertained at all. The evaluation once done by the University shall be absolutely final.**
20. If a candidate wishes to verify his/her result, he/she will be provided a photocopy of his/her answer sheet on payment of Rs. 10,000/- within 10 days after the declaration of the entrance test result and the office should process the whole procedure within three working days. In case, a discrepancy is found in the result of the candidate, the result would accordingly be revised and the fee deposited will be refunded.
21. In the case of Objective Type question papers, the candidate must ensure that the answers to the questions are attempted on the specifically prescribed OMR Answer Sheet only. No answer attempted on the Question Booklet will be considered for evaluation. Only those questions answered on the OMR sheet shall be taken into account.

22. **RESOLVING OF TIES**

Candidates securing equal marks in the Final Merit List shall be bracketed together. However, their inter-se merit rank shall be determined as under:-

1. A candidate getting a higher percentage of marks in qualifying examination shall rank higher in order of merit.
 2. If the marks, as mentioned in (i) are also the same then the candidate obtaining higher percentage of marks in the immediate lower exam shall rank higher in order of merit.
 3. If two or more candidates secure equal marks in (i) and (ii) above, candidate senior in age shall rank higher in order of merit.
23. Candidates are not allowed to carry eatables, drinks etc. into the Test Centre. Smoking inside and around the Centre is not permitted.
 24. Any candidate who creates disturbance of any kind during the examination or otherwise misbehaves in or around the examination hall or refuses to obey the Superintendent/Deputy Superintendent/Assistant Superintendent /any other official on examination duty or changes his/her seat with any other candidate or occupies any seat, other than the one allotted to him/her shall be expelled from the examination hall. **("Expulsion" for this purpose would mean cancellation of the Entire Entrance Test).** The Centre Superintendent/Observer/any other authorized University Officer/Official shall be competent to expel a candidate from the examination centre.
 25. Any candidate having in his/her possession or accessible to him/her paper/books or notes which may possibly be of any assistance to him/her or is found giving or receiving assistance, or copying from any paper/book or note or from anywhere else or allowing any other candidate to copy from his/her answer book or found writing on any other paper, questions set in the question paper, during examination or using or attempting to use any other unfair means or indulging in any kind of misconduct shall be expelled from the examination hall. **("Expulsion" for this purpose would mean cancellation of the Entire**

- Entrance Test).** The Centre Superintendent/Observer/any other authorized University Officer/Official shall be competent to expel a candidate from the examination centre.
26. If any Answer Sheet of a candidate shows or it is otherwise established that he/she has received or attempted to receive help from any source in any manner or has given help or attempted to give help to any other candidate in any manner, the relevant Answer Sheet shall be cancelled. The cancellation of the Answer Sheet shall mean the cancellation of all Answer Sheets of the Common Entrance Test. The decision of the Controller of Examinations, Panjab University, Chandigarh in this regard shall be final.
 27. **If a candidate writes his/her name or puts any kind of identification mark or discloses his/her identity by any method whatsoever on the cover or anywhere else in the Question Booklet/Answer Sheet, the same shall be treated as cancelled. The cancellation of the Answer Sheet shall mean cancellation of all Answer Sheets of the Entrance Test. The decision of the Controller of Examinations, Panjab University, Chandigarh in this regard shall be final.**
 28. Any person, who impersonates a candidate, shall be disqualified from appearing in any Panjab University examination for a period of five years including this Entrance Test if that person is a student on the rolls of a recognised College or University. But if the person is not on the rolls of a recognised College or University, s/he shall be declared as a person not fit and proper to be admitted to any examination of the Panjab University for a period of 5 years. The case, if necessary, shall also be reported to the police for any further action in the matter.
 29. If it is found that a candidate has knowingly or willfully concealed or suppressed any information/fact which renders him/her ineligible to take the Entrance Test, his/her result of the Test as also admission to a College/Centre of the University, if granted, shall stand cancelled and he/she shall have no claim whatsoever against the College/Centre concerned and the case, if necessary shall be reported to the police.
 30. If a dispute or controversy of any kind arises before, during or after conduct of Entrance Test, the decision of the Controller of Examinations, Panjab University, in all such cases, shall be final.
 31. The candidates shall be admitted to the test only on the production of the Admit Card at the Test Centre. No candidate shall be allowed to take the test without the Admit Card under any circumstances. The candidates must retain the Admit Card with them till the admission process is over, since it will be required again at the time of counseling.
 32. The Admit Cards will be issued to the candidates only provisionally, at their sole risk and responsibility subject to the final confirmation of their eligibility at the time of admission. It is further clarified that the candidates shall be taking the test at their own risk and responsibility as far as their eligibility is concerned and the University shall, in no way, be responsible if they are found to be ineligible, later, leading to cancellation of their result or any other consequence(s) emanating from the same.
 33. The result of the Entrance Test will be made available at <http://results.puchd.ac.in>.
 34. The date by which Roll No will be available online is **12-10-2020 (Monday)**. Admit Card required to be downloaded from the website by the candidates using their own Login and Password (provided while generating Bank Challan). **There will be no physical communication for this purpose.**
 35. On 21.10.2020, the Question Papers and Answer Keys will be put on the University website <http://exams.puchd.ac.in/show-noticeboard.php>. The candidates can file their objections regarding discrepancies and accuracy of the Key by e-mail to arcet@pu.ac.in latest by 23.10.2020. Objections received will be published on the website and cross-objections will also be invited within a certain timeframe as mentioned in the Schedule for Entrance Test and Admission PULEET -2020 on Page 4. The valid concerns thus expressed will be given due consideration while evaluation.
 36. If a candidate wishes to verify his/her result, he/she will be provided a photocopy of his/her answer sheet on payment of Rs.10,000/- within 10 days after the declaration of the Entrance Test result and the office should process the whole procedure within three working days. In case, a discrepancy is found in the result of the candidate, the result would accordingly be

revised and the fee deposited will be refunded.

37. The following functionaries may be contacted only in case of extremely urgent enquiry from 10.00 a.m. to 4.00 p.m. (on working days only)

PULEET Coordinator,	0172-2541242,
University Institute of Engineering	0172- 2534995
& Technology, Panjab University,	
Chandigarh-160014	
A.R. (CET Cell)	0172-2534829, 9855531122
	Superintendent: 8360262309

38. Ragging in any form is banned in Panjab University, Chandigarh. If a student is found to have indulged in Ragging, strict action will be taken against that student, which includes expulsion from the Institution/Department.

For any Enquiry

1. Assistant Registrar (C.E.T.) Superintendent	0172 – 2534829, 9855531122 8360262309
2. Controller of Examinations	0172 – 2534811
3. Main Enquiry Office	0172 – 2534818, 2534866 18001802065

SYLLABUS FOR PULEET - 2020

I. GENERAL ENGINEERING

(a) Basic Electrical Engineering (10 Questions)

1. **DC circuits:** Voltage and current sources, Kirchhoff's laws and network solution, network analysis by mesh and node analysis, superposition theorem, Thevenin's theorem, Norton's theorem, delta-star transformation and vice-versa, maximum- power transfer theorem, energy storage elements, step response of RL, RC and RLC circuits.
2. **Single Phase AC Fundamentals:** Alternating current systems, waveform terms and definitions, average and r.m.s. values of alternating, quantities, phasor notation, solution and phasor diagram of single phase ac circuits with sinusoidal source excitation.
3. **Three Phase AC Fundamentals:** Disadvantages of single phase system, three phase voltages and currents, voltages and currents in star and delta connected systems, power in a three phase system, solution of three phase balanced circuits, power and power factor measurement by two watt-meter method.
4. **Magnetic Circuit:** Introduction to magnetic circuit, magneto motive force and magnetic field strength, permeability of free space, relative permeability, reluctance, comparison of electric and magnetic circuits, B/H curve, magnetic circuits calculations, self and mutual inductance.
5. **Transformers:** Introduction, Basic Principle, EMF equation, approximate equivalent circuit, phasor diagram, losses, efficiency and condition for maximum efficiency, voltage regulation, open circuit and short circuit tests.
6. **Electric Machines:** Operating principle and application of DC machine as generator and motor, EMF and Torque equations, methods of excitation.
Operating principle and applications of 3 phase squirrel cage and slip ring induction motors, equivalent circuit and torque speed characteristics (qualitative treatment)

Operating principle of single phase induction motor (split Phase and capacitor motors), torque-speed characteristics (qualitative treatment)

Principle of operation and applications of variable reluctance, permanent magnet and hybrid stepper motors, speed torque characteristics (qualitative approach)

(b) Basic Electronics (10 Questions)

1. **Semiconductor Diode:** PN-Junction, Junction Theory, V-I characteristics of a PN-Junction Diode, Ideal Diode, Use of Diode in Rectifiers: Half Wave Rectifiers, Full Wave Rectifiers, Zener Diode, Varactor Diode, Light Emitting Diodes.
2. **Bipolar Junction Transistor:** Introduction, Junction Transistor Structure, Operation, Transistor amplifying action, CB, CC and CE Configuration, characteristics, application of transistor as an amplifier.
3. **Field Effect Transistor:** Introduction, Types of FET's, JFET's, MOSFET's, CMOS, characteristics, working, applications.
4. **Operational Amplifiers:** Block Diagram, Characteristics of an ideal OP-AMP, Application of OP-AMP as an Inverting amplifier, Phase Shifter, Scale Changer, Non-inverting amplifier, Adder or Summing amplifier, differential or difference amplifier, integrator.
5. **Oscillators:** Block Diagram of feedback circuit used as an oscillator, Barkhausen criterion, types of oscillators.
6. **Boolean Algebra and Logic Gates:** Binary and Hexadecimal number system, BCD and weighted codes, Binary arithmetic, Logic-positive and negative logic, basic and universal logic gates. Boolean algebra and postulates, reduction of Boolean expression.

7. **Flip Flops:** Concept of flip-flops, RS, D, JK and T types, triggered and clocked, master slave, Shift Register, concept of synchronous and asynchronous counters. Half and full adder, subtractor, Seven Segment display, Concept of Mux, deMux, decoder and encoder.
8. **Test and Measuring Instruments:** Block diagram, concept of digital electronic voltmeters, ammeter and wattmeter, CRO, Signal Generators, Sensors and Transducers and their classification. Working principle of resistive, capacitive, photosensitive and temperature transducers. Block diagram and working principle of analog and digital data acquisition system.
9. **Communication:** Basic Concepts, Modulation, Need for modulation, introduction to AM, FM, PM.

(c) Programming Fundamentals (10 Questions)

1. **Introduction:** Computer Basic, Block Diagram of Computer, Memory Hierarchy, Types of RAM, Secondary Memory Introduction to Operating Systems, Programming Languages, Program Structure, Linux Shell Commands, Bourne Shell, C Shell, Korn Shell
2. **Basic Constructs of C:** Keywords, Identifiers, Variables, Symbolic Constants, Data Types and their storage, Operands, Arithmetic Operators, Relational Operators, Logical Operators, Bitwise Operators, Increment & Decrement Operators, Expressions, Conditional Expressions, Assignment Operators and Expressions, Type Conversions, Precedence and Order of Evaluation, External Variables and Scope of Variables. Basic Input Output, Formatted I/O.
3. **Program Control Flow:** Statements and Blocks, Conditional Statements, IF, ELSE-IF, Switch Case statements, Control Loops, For, While and Do-While, Go to and Labels.
4. **Arrays & Functions:** Pointers and Addresses, Arrays, Multi dimensional arrays, strings, pointer arrays, Functions, Function Prototyping, Scope of functions, Arguments, Call by value and call by references, static variables, recursion, C-Preprocessor and Macros, Command line arguments.
5. **Structures:** Structures, Array of Structures, pointer to structures, Typedef, Unions, Bit fields, passing structures as an argument to functions
6. **Input and Output:** Standard and Formatted Input and Output, File Access & its types, Line Input and Output, Types of Files, Binary & ASCII Files, Error handling, stderr and Exit functions
7. **Introduction to Object Oriented Programming:** Classes and Objects, Structures vs Classes, Abstraction, Encapsulation, Polymorphism, Inheritance.

(d) Fundamentals of Mechanical Engineering (10 Questions)

1. **Laws Of Thermodynamics:** First law of thermodynamics, Steady flow energy equation and its applications (nozzle, throttling device, turbine, compressor, heat exchanger). Limitations of first law, statements of second law by Max-planck and Clausius, equivalence between the two statements. Reversible and irreversible processes, Carnot's theorem. Energy analysis of a heat engine, refrigerator and heat pump.
2. **Steam and Its Formation:** P-V, P-T, T-S, H-S diagrams of water. Dryness fraction and its measurement by calorimeter. Uses of steam tables and mollier chart (H-S chart)
3. **Power Cycles:** Carnot and Rankine steam power cycles. Effect of mean temperature of heat addition on Ranking cycle efficiency. Otto, Diesel and Dual combustion cycles for reciprocating I.C. engines.
4. **Kinematics Of Fluid Flow:** Types of flow, acceleration in fluid flow, stream lines, stream tubes, irrotational flow, stream function, velocity potential, flow nets.
5. **Fluid Dynamics:** Equation of continuity, Euler's Equation, Bernoulli's equation, simple applications to one dimensional flow problems.

6. **Flow Measurement:** Pilot tube, Venturimeter, Orificemeter, Notches (Rectangular & Triangular) and weirs, Rotameter.
7. **Simple Stress and Strains:** Concept of stress and strain. Stress and strains in bars subjected to tension and compression, stress-strain diagrams, mechanical properties, factor of safety, Extension of Uniform bar under its own weight, stress produced in compound bars (two or three) due to axial loads.
8. **Bending moment (B.M.) and Shear force (S.F.):** Diagrams for cantilevers, simply supported beams with or without overhang and calculation of maximum B.M. and S.F. and the point of contra flexure under the following loads. Concentrated loads, Uniformly distributed loads over whole span or part of span, combination of concentrated loads (two or three) and uniformly distributed loads.
9. **Bending and Torsion:** Stress in beams due to bending, proof of formulae $M/I = f/y = E/R$ and its application to beams of rectangular and circular section. Application of torsion equation to hollow and solid circular shaft.

(e) **Fundamentals of Civil Engineering(10 Questions)**

1. **Construction Material and Building Construction:** rock, Bricks & Tiles, Cement, Lime Timber and paints, Excavation of foundation, Brick Masonry, Stone Mesonry, Wall, Mortal & Concrete, Damp-proofing, Doors-windows, Roof, Floors, Stairs and Building planning.
2. **Hydraulics :** Fluids and Properties of fluids, Hydrostatic Pressure, fluid flow and measurement through pipe and open channel
3. **Concrete and Structures:** Concrete and Properties of Concrete, Formwork, ordinary and special concrete, Concrete Operation. Stress & strain, Bending Moment & Shear Force, Slope and Deflection, Columns and trusses.
4. **Reinforced Concrete Structures:** Reinforcement, Theory of RCC Beams, Bonds in RCC Beams, Singly & Doubly RCC Beams, RCC Slabs, Reinforced Brick Works and Columns.
5. **Steel Structure:** Structural Steel Section and Connections, Tension, Compression and Beam Members.
6. **Surveying:** Chain & Compass Surveying, Leveling using Dumping and IOP Level.
7. **Irrigation Engineering:** Rainfall and Run off, Crops water requirement, Irrigation and types of irrigation, Canal Works, Water logging and Drainage, Dams.
8. **Transportation Engineering:** Road Geometrics, Highway Surveying, Road Material and Pavement, Road Drainage and Maintenance.
9. **Soil Mechanics:**Physical Properties of soil and Soil classification, Water flow through soil and Soil Deformation, Strength Characteristics of soil and soil Compaction, Bearing Capacity and Site Exploration
10. **Estimation and Costing :** Estimation and Types of estimation, Analysis of Rates, Irrigation Work Estimation, Road Work Estimation and Valuation.

(f) **Fundamentals of Chemical Engineering(10 Questions)**

1. Introduction to Engineering Calculations:

Units and dimensions, conversion of units, systems of units, dimensional homogeneity and dimensionless quantities, Conversions involving process variables like pressure, temperature, density/specific gravity, mass, volume, flow rate and chemical composition. Chemical equations and stoichiometry.

2. Systematic analysis of chemical processes:

Unit operations and unit processes, material and energy balances, thermodynamics, chemical reaction engineering, Introduction to material balances without chemical reactions. Limiting and excess reactants. Recycle, Bypass and Purge calculations.

3. Gas laws and humidity calculations

P-V-T relations for gas and gas mixtures, calculations using ideal gas law, Use of compressibility charts and equations of state (Van der Waals') to predict real gas properties from experimental data. Vapour pressure calculations, Clausius Clapeyron equation, saturation vapour pressure, vapour-liquid equilibrium calculations using Raoult's law and Henry's law, relative humidity, partial saturation and humidity.

II. PHYSICS(10 Questions)

(a) MECHANICS

Linear kinematics and its equations of motion, projectile motion, circular motion.

Newton's laws of motion, principle of conservation of momentum applications to linear and planar motion, concept of friction and its laws, motion on smooth and rough inclined planes, simple and complex Atwood's machines.

Concept of work, energy and power, work-energy principle, principle of conservation of energy.

Rotational motion, equations of rotational kinematics, moment of inertia and radius of gyration of a rotating body; torque and angular momentum; work, power and energy in rotational motion, conservation of angular momentum.

Simple harmonic motion and its characteristics, energetics of simple harmonic motion, idea of damped and forced oscillations, resonance and its applications.

Wave motion and its characteristics, theory of sound propagation, velocity of sound and factors influencing the velocity of sound, Doppler effect in sound, superposition of sound in space (stationary waves) and time (beats), vibrations of air columns and stretched strings.

(b) OPTICS

Geometrical optics, reflection and refraction of light, reflections by spherical mirrors, refraction through lenses, spherical and chromatic aberrations, dispersion and deviation of light through prism, optical microscopes and telescopes.

Wave nature of light; interference, Young's double slit experiment, Lloyd's mirror and Fresnel's biprism techniques for producing interference pattern, interference through thin film, colouring of thin films; diffraction of light through a single slit, Rayleigh's criteria of resolution, resolving power of optical instruments ; concept of polarization, methods of producing polarized light, analysis of polarized light, Doppler effect in light.

Laser, its principle, characteristics and applications.

(c) HEAT

Thermometry, idea of specific heat and heat capacity, latent heats of fusion and vaporization, variation of specific heats of solids, liquids and gases with temperature, concept of degree of freedom, law of equi partition of energy.

Modes of heat transfer (conduction, convection and radiation); linear, surface and volume expansion of matter on heating.

(d) ELECTRODYNAMICS

Electric field and electric potential, electric dipole and its field, Gauss' law and its applications; concept of capacitance, energy stored in a capacitor, effect of introducing dielectric and conducting slabs between plates of a capacitor, dielectric constant of material.

Current electricity, Kirchoff's laws and applications, thermal and chemical effects of current, slide wire bridge, potentiometer, ammeter and voltmeter.

Magnetic effects of current, Biot-Savart law and its applications, Lorentz force, moving coil galvanometers ; laws of electromagnetic induction, eddy currents and its applications, self and mutual inductance.

(e) MODERN PHYSICS

Black body radiation distribution, photoelectric effect, idea of x-ray production, wave-matter duality and de-Broglie waves, position-momentum uncertainty principle.

Crystalline and amorphous solids, basic idea of crystal structures (simple cubic, body-centered cubic, face-centered cubic) and their characteristics, close packing morphologies, Schottky and Frenkel defects in crystals.

Rutherford scattering experiment, Bohr's model and hydrogen spectrum.

Nucleus and its properties (mass, size, binding energy, magnetic and quadrupole moments), nuclear forces and its properties, phenomenon of radioactivity and its laws, modes of radioactive decays (α , β and γ), nuclear fission and fusion.

III.CHEMISTRY (10 Questions)

Atomic Structure and Periodic Table

Constituents of the Atom, Bohr's Model of the Atom, Quantum Number and Electronic Energy Levels, Aufbau's Principle, Pauli's Exclusion Principle, Hund's Rule, $n + l$ Rule, Electronic Configuration of Elements (s, p, d Block Elements), Development of Periodic Table- Modern Periodic Law, Long form of Periodic Table, Study of Periodicity in Physical and Chemical Properties with special reference to - Atomic and Ionic Radii, Ionisation Potential. Electron Affinity, Electro negativity, Variation of Effective Nuclear Charge in a Period, Metallic Character.

Fuels

Definition, Classification, Calorific Value (HCV and LCV) and Numerical Problems on Calorific Value, Combustion of Fuels, Numerical Problems on Combustion, Solid Fuels – Coal and Coke, Liquid Fuels- Petroleum and its Distillation, Cracking, Octane and Cetane Values of Liquid Fuels, Synthetic Petrol, Power Alcohol, Bio-Gas, Nuclear Fuels – Introduction to Fission and Fusion Reactions.

Water

Demonstration of water resources on Earth using pie chart., Classification of water – soft water and hard water, action of soap on hard water, types of hardness, causes of hardness, units of hardness – mg per liter (mgL^{-1}) and part per million (ppm) and simple numericals., Disadvantages caused by the use of hard water in domestic and boiler feed water. Removal of hardness – Permutit process and Ion-exchange process. Chemical analysis of water for estimation of Total dissolved solids (TDS), Alkalinity of water. Drinking water and characteristics of drinking water. Natural water sterilization by chlorine and UV radiation and reverse osmosis (elementary idea).

Environmental Chemistry

Classification of pollutants, the greenhouse effect, toxic heavy metals, organic compounds as environmental pollutants, ozone layer depletion.

Corrosion

Types of corrosion, dry and wet corrosion and their mechanisms, types of electrochemical corrosion (galvanic, pitting, waterline, differential aeration, soil, microbiological, inter-granular, stress corrosion), factors influencing corrosion, prevention of corrosion.

IV MATHEMATICS(10 Questions)

(a) Algebra:

Quadratic Equations, equations reducible to quadratic form, relation between roots and coefficients, Arithmetic Progression, Geometric Progression, Arithmetico-Geometric Progression, Harmonic Progression, Series of Natural Numbers.

(b) Matrices:

Concept of linear independence and dependence, Rank of a matrix: Row – Echelon form, System of linear equations: Condition for consistency of system of linear equations, Inverse of a matrix.

- (c) **Trigonometry:**
Trigonometric ratios and their relations, ratios of some standard angles, solution of trigonometric equations, sum and difference formulae, product formulae, multiple and sub-multiple angles, solution of triangles.
- (d) **Coordinate Geometry:**
Cartesian coordinates, equations of straight line in various forms, intersection of two straight lines, angle between two lines, distance formula. Equation of circle in various forms, tangent and normal to circle.
- (e) **Differential Calculus of Functions of one variable:**
Successive Differentiation, Leibnitz Theorem, Expansions of functions: Taylor's and Maclaurin's Series, Formulae for remainder term in Taylor and Maclaurin series, Angle of contingence, Curvature, Radius of curvature, Centre of curvature for curves in Cartesian form. Curvature at the origin: Newton's formulas.
- (f) **Differential Calculus of Functions of two variables:**
Concept of limit and continuity of a function of two variables, Partial derivatives, total differential, differentiation of an implicit function, chain rule, change of variables, Jacobian, Taylor's and Maclaurin's series. Maxima and minima of a function of two variables: Lagrange's method of multipliers.
- (g) **Ordinary Differential Equations:**
Review of geometrical meaning of the differential equation $y' = f(x, y)$, directional fields, Exact differential equations, Integrating factors.
- (h) **Integral Calculus:**
Reduction formula for $\int \sin^n x \, dx$, $\int \cos^n x \, dx$, $\int \sin^m x \cos^n x \, dx$, $\int x^m (\log x)^n \, dx$, $\int x^n e^{ax} \, dx$, $\int x^n \sin mx \, dx$, $\int x^n \cos mx \, dx$, Areas of curves, Length of curves, Volume and surface areas of revolution, Double integrals, Change of order of integration, Areas enclosed by plane curves.
- (i) **Vector Differential Calculus:**
Vectors and scalar functions and fields, derivatives. Curves, tangents, arc lengths, Curvature and torsion of a curve, Gradient of a Scalar field, Directional Derivative, Divergence of a vector field, Curl of a vector field.
- (j) **Vector Integral Calculus:** Line integrals, Line integrals independent of path, Green's theorem in the plane, Surface Integrals, Triple integrals, Gauss Divergence Theorem, Stoke's Theorem.

V **GENERAL APTITUDE AND COMMUNICATION SKILLS(10 Questions)**

General Aptitude

Coding- Decoding , Directions, Reasoning

Writing Skills

Basics of Grammar – Word Order, Sentence Construction, Placing of Subject and Verbs, Parts of Speech - Nouns, Pronouns, Adjectives, Verbs, Adverbs, Use of Tenses, Articles, Active-Passive, Verbal Analogies

SAMPLE QUESTIONS FOR PULEET-2020

1. The efficiency of a Carnot engine is dependent on:
 - (a) Specific heat of gas used
 - (b) Temperatures of source & sink
 - (c) Rapidity of compression and expansion of gas used
 - (d) All of the above
2. The ball of 100 g is in uniform circular motion of radius 4m and has a constant speed of 2 m/s. The centrifugal force acting on it will be
 - (a) 100 N
 - (b) 0.1 N
 - (c) 10 N
 - (d) None of these
3. The value of $\sin 10^\circ + \sin 20^\circ + \sin 30^\circ + \dots + \sin 360^\circ$ is
 - (a) 1
 - (b) 0
 - (c) -1
 - (d) None of these
4. The system of linear equations $AX=b$ where A is $m \times n$ matrix of coefficients, X is $n \times 1$ vector of unknowns, b is $m \times 1$ vector of unknowns is consistent if
 - (a) $\text{rank } A = \text{rank } (A|b)$
 - (b) $\text{rank } A \neq \text{rank } (A|b)$
 - (c) $\text{rank } A = 0$
 - (d) $\text{rank } A = n+m$
5. If one root of a quadratic equation with real coefficients is $\frac{1}{3+4i}$, then the other root is
 - (a) $3-4i$
 - (b) $\frac{3}{25} + \frac{4}{25}i$
 - (c) $\frac{3}{25} - \frac{4}{25}i$
 - (d) $\frac{4}{25} - \frac{3}{25}i$
6. Pitot tube is used to measure
 - (a) Discharge
 - (b) Velocity
 - (c) Temperature
 - (d) None of these
7. During _____ Throttling remains constant
 - (a) Heat
 - (b) Temperature
 - (c) Enthalpy
 - (d) Internal Energy
8. In a differential amplifier, CMRR can be improved by increasing
 - (a) Emitter Resistance
 - (b) Collector Resistance
 - (c) Power Supply Voltage
 - (d) Source Resistance
9. If an amplifier with a gain of -1000 had a gain change of 20% due to temperature. It was provided the feedback with feedback factor $\beta = -0.1$, now the change in gain with feedback will be
 - (a) 10%
 - (b) 5%
 - (c) 0.2%
 - (d) 0.01%
10. 8085 microprocessor can address memory space of
 - (a) 256 B
 - (b) 128 KB
 - (c) 64 Kb
 - (d) 1 MB
11. Default access types of member variable in classes is
 - (a) private
 - (b) public
 - (c) protected
 - (d) static
12. Which of the following operator has the highest precedence
 - (a) +
 - (b) /
 - (c) *
 - (d) ++
13. Which of the following statement is invalid
 - (a) $x=y+++z;$
 - (b) $x+=y;$
 - (c) $++x++;$
 - (d) $a+b=c+d;$
14. A series RLC circuit offer the impedance value at resonance that is
 - (a) maximum
 - (b) minimum
 - (c) infinite
 - (d) none of these

15. In Star connection for balanced load, the current flowing in neutral wire is
(a) minimum
(b) maximum
(c) zero
(d) none of above
16. In an SCR, the break over voltage V_{BO}
(a) increases with increase of positive gate current
(b) is independent of gate current
(c) decreases with increase of positive gate current
(d) none of above