Institute of Chemical Engineering and Technology
University of the Punjab, Lahore

General Guidelines for Entry Test-2020 for MSc/PhD (Engg)

1. The composition of the entry test will be as follows:

Section	Marks	No. of questions
Verbal Ability (Includes English grammar and spellings, vocabulary, word analogy, reading comprehension, etc.)	**20**	**20**
Quantitative Ability (Includes arithmetic, algebra, data analysis, geometry, etc.)	**20**	**20**
Analytical Reasoning (Includes deductive and inductive logic and critical thinking)	**10**	**10**
Subject Knowledge (Includes Stoichiometry, Heat transfer, Mass transfer, Separation processes, Chemical reaction engineering, Fluid and particle mechanics, Thermodynamics, Instrumentation and process control, etc.)	**50**	**50**
Total	**100**	**100**

2. The test duration will be 2 hours.
3. The use of mobile phones/smart phones, etc., is prohibited.
4. There is no negative marking. All questions are compulsory and carry equal marks.
5. The use of lead pencils/ink removers, etc., is not allowed.
6. No markings on question- and answer-sheets are allowed. Question-sheet must be returned along with answer-sheet.
7. It is mandatory to mention name and registration/roll no. on answer-sheet, otherwise, it will be considered invalid.

Institute of Chemical Engineering and Technology
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MSc/PhD (Engg) Chemical Engineering

SPECIMEN ENTRY TEST-2020

(A few sample questions are provided, difficulty level may vary in actual test)

Time allowed: 2 Hours
Marks: 100

Name of applicant: _____ Roll No. _____

Note: Attempt all questions.

VERBAL ABILITY (Total Questions = 20)

Select one of the most appropriate choices given against each question.

1. Despite his illness, Afridi was _____ in his team.
    a. Disappointing
    b. Useless
    c. Vigorous
    d. Instrumental
2. Shazia's home looked as though it had been _____ from a rag bin; her expensive burner was her sole_____ of luxury.
    a. Cleaned - Expensive
    b. Computerized - Cost
    c. Modernized - Symbol
    d. Salvaged - Sign
3. Progress of a nation depends _____ the hard work, dedication, and loyalty of its people.
    a. upon
    b. on
    c. at

QUANTITATIVE QUESTIONS (Total Questions = 20)

Select one of the most appropriate choices given against each question.

1 Question: Ali starts a business with Rs 80,000/-. His first year profit is 10%. What is the total amount after first year?
a) 105,600
b) 201,200
c) 500,00
d) 100,00

2 If x/9 is equal to 2/3, then x is equal to;

a) 8/3
b) 6
c) 3
d) 27/2

3 Question: If 3y = 7, the value of 6y-3 is;

a) 39
b) 13
c) 11
d) 10

ANALYTICAL REASONING (Total Questions = 10)

Questions 1 – 3

Nine individuals: Khizar, Bilal, Abdullah, Faisal, Qasim, Ahmed, Ayesha, Amna, and Aqsa are to serve on three committees labeled as A, B, and C.

- Each candidate should serve on exactly one of the committees
- Every committee must have at least one member
- Committee A should consist of exactly one member more than that of committee B
- Among Ayesha, Amna and Aqsa none can serve on committee A
- Among Faisal, Qasim and Ahmed none can serve on committee B
- Among Khizar, Bilal and Abdullah none can serve on committee C

QUESTIONS

1. In case Abdullah and Aqsa are the individuals serving on committee B, how many of the nine individuals should serve on committee C?

a) 2
b) 3
c) 4
d) 5

2. Of the nine individuals, the maximum number that can serve together on committee C is

a) 5
b) 6
c) 7
d) 8

3. In case Khizar is the only individual serving on committee B, which among the following should serve on committee A?

a) Bilal and Abdullah
b) Bilal and Faisal
c) Faisal and Qasim
d) Abdullah and Amna

SUBJECT BASED QUESTIONS (Total Questions = 50)

Select one of the most appropriate choices given against each question.

1. Rate of a chemical reaction _____ with an increase in temperature.

a. increases b. decreases c. does not change d. Remains constant

2. Distillation is possible only if the solution components are_____

a. Volatile b. Non-volatile c. Cryogenic d. None of the above

3. At equilibrium, the total Gibb's free energy for all the phases is:

a. Minimum b. Maximum c. Infinity d. Zero

For details about admission rules and eligibility criteria, please visit
http://pu.edu.pk/dpcc/rules.htm