

Sample Sheets for Entry Test

Pre-Admission Test for candidates seeking admission to
First Year of B.Sc. Engineering at
NFC Institute of Engineering & Technological Training, Multan.

GENERAL INSTRUCTIONS

1. The candidate will be required to write his/her name, father's name, date of birth, and seat number on top of the answer sheet and rough work sheet.
2. All rough work must be done on the rough work sheet.
3. In order to ensure a fair chance to every candidate and to conduct the test efficiently, the candidate must carefully follow the instructions given in this booklet and by the instructor.
4. The test is divided into four parts i.e. English, Mathematics, Physics & Chemistry/Computer Science. Each part is composed of many short items. You will be given separate instructions for each part.
5. The instructor will inform the candidate when to start work on any part of the test and when to stop. It is of utmost importance that the work is performed only on that part on which the test is in progress.
6. In the interest of fairness, we insist that no one may continue work even for a second after the Instructor has asked that the work be stopped.
7. During the test, do not talk, whisper, or turn your eyes or head away from your own papers.
8. Any evidence of cheating or non-compliance of instructions will disqualify the candidate from the Test, and his name will be removed from the list of the candidates for admission.
9. The candidates should carefully think about their answer before writing it on the answer sheet. Once an answer has been written on the answer sheet, the candidate will NOT be permitted to change any of his or her answers in any way. You CAN NOT erase or overwrite your previous answer. All such answers will be treated as wrong.
10. All unattempted questions (blank) must be marked with a cross (X) on the answer sheet.
11. There will be NEGATIVE MARKING in all parts of the test. Each question carries four points. For each wrong answer, one point shall be deducted.
12. When the Instructor says STOP, cover your test booklet with the large sized pink card specially provided for this purpose.

The candidates should not mark answers on the question paper, all answers must be written only on the answer sheet with the black ballpoint pen that has been provided to you.

STOP. DO NOT TURN THIS PAGE.

INSTRUCTIONS FOR

PART - I (English)

In this part of the test you will have 25 questions like the one's given below. You will have 15 minutes to answer as many questions as you can.

The answers of the following examples are indicated on the ANSWER SHEET.

In this part, there are different types of sentences as given below.

Type - I

Identify the incorrect segment and write the corresponding letter in the answer sheet.

1. Each of the soldiers were given special meals.
 A B C D

Type - II

Identify the correct indirect sentence and write the corresponding alphabet in the answer sheet.

2. He said to me, "When are you leaving?"
 A. He asked me when I was leaving.
 B. He said to me when was I leaving.
 C. He asked me that when I was leaving?
 D. He asked me about when I was leaving.

Type-III

Identify the most appropriate sentence from the four options for the given sentence and write the corresponding alphabet in the answer sheet.

3. The people of Pakistan have undergone many social problems.
 A. The Pakistan peoples have undergone many social problems.
 B. The people of Pakistan have faced many social problems.
 C. The peoples of Pakistan had been faced with many social problems.
 D. The peoples of Pakistan under underwent a large number of social problems.

Type-IV

Identify the correct passive voice and write the corresponding alphabet in the answer sheet.

4. Someone has picked my pocket.
 A. My pocket has been picked.
 B. My pocket was picked by someone.
 C. Someone was picked by money in of pocket.
 D. My pocket has picked someone.

Type-V

Identify the correct option to complete the sentence and write the corresponding alphabet in the answer sheet.

5. My brother plays the piano _____ expert musician.
 A. like a
 B. since an
 C. as if an
 D. as an

ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET
 DO NOT TURN THIS PAGE UNTIL YOU ARE INSTRUCTED TO DO SO

INSTRUCTIONS FOR
PART - II (Mathematics)

In this part of the test you will have 25 questions like the one's given below. You will have 15 minutes to answer as many questions as you can.

EXAMPLES:

1. Given Sets A and B, $(A \cup B)'$ =

- A. $A' \cup B'$
- B. $A' \cap B'$
- C. $A \cup B$
- D. $A \cap B$

The DeMorgan law states that $(A \cup B)' = A' \cap B'$ therefore, the correct choice is B, and you will write B on the answer sheet.

2. The Equation of a line with slope -2 and passing through the point $(3,2)$ is

- A. $X - Y = 0$
- B. $X + 4Y = 16$
- C. $2Y + 4X - 16 = 0$
- D. $X + 2Y + 16 = 0$

The Equation $2Y + 4X - 16 = 0$ could be rewritten as $Y = -2X + 8$, which shows that the slope is -2 and it passes through $(3,2)$. Therefore the third choice is the correct one, and you will write C on the answer sheet.

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INSTRUCTIONS FOR
PART - III (Physics)

In this part of the test you will have 25 questions like the one's given below. You will have 15 minutes to answer as many questions as you can.

EXAMPLES:

1. The product of mass and velocity is called
 - A. Acceleration
 - B. Moment Arm
 - C. Negative Acceleration
 - D. Momentum

We know that the product of mass and velocity is called momentum. Hence the correct answer is Momentum. Therefore, the letter 'D' will be written on the answer sheet.

2. The production of X-Rays can be regarded as an inverse
 - A. Electromagnetic effect
 - B. Photoelectric effect
 - C. Compton's effect
 - D. Photon effect

In the above example the correct answer is "Photoelectric effect". So the letter 'B' should be written on the answer sheet, as shown on the enclosed sample answer sheet.

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INSTRUCTIONS FOR

PART - IV (Chemistry)

In this part of the test you will have 25 questions like the one's given below. You will have 15 minutes to answer as many questions as you can.

EXAMPLES:

1. The chemistry of carbon is called
- A. organic chemistry
 - B. inorganic chemistry
 - C. physical chemistry
 - D. pharmaceutical chemistry

Since the chemistry of carbon is called "organic chemistry", therefore, the alphabet 'A' will be written on the answer sheet as shown on the enclosed sample answer sheet.

2. How many gm-atoms of sulphur are there in 64 grams of the element ?
- A. 1
 - B. 2
 - C. 3
 - D. 4

Since the atomic weight of sulphur is 32 therefore weight of 2 gm-atoms of sulphur is 64 grams. Hence the second choice is correct and you should write 'B' on the answer sheet.

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INSTRUCTIONS FOR
PART - V (Computer Science)

In this part of the test you will have 25 questions like the one's given below. You will have 15 minutes to answer as many questions as you can.

EXAMPLES:

1. 'ASCII' is a
 - A. 6 bit BCD code used by Mainframe Computers.
 - B. 7 bit BCD code used by Personal and Minicomputers.
 - C. 8 bit BCD code used in IBM Mainframe.
 - D. 9 bit BCD code used in Super Computers.

2. Clock speed in modern computers generally varies from
 - A. 5 MHz to 50 MHz
 - B. 5 GB to 50 GB
 - C. 100 MHz to 2000 MHz
 - D. 20 GB to 40 GB

3. One Nibble is equal to
 - A. 8 bits
 - B. 4 bits
 - C. 16 bits
 - D. 32 bits

4. Which type of processing occurs right after inputs are entered into a computer system and the output results are quickly produced.
 - A. Critical
 - B. Batch
 - C. Interactive
 - D. Sequential

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NFC Institute of Engineering & Technological Training, Multan.

ANSWER SHEET

Seat No.

All answers must be given in CAPITAL LETTERS

Name: _____ Date of Birth _____ Father's Name _____
(BLOCK LETTERS)

	English PART-I	Mathematics PART-II	Physics PART-III	Chemistry PART-IV	Computer Science PART-V
1	C	B	D	A	B
2	A	C	B	B	C
3	B				B
4	B				C
5	D				
6					
7					
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25					

FOR OFFICE USE ONLY

Right _____

Wrong _____

Blank _____

Right _____ x 4 = _____

Wrong (-) _____

Total: _____

Graded by _____

Regraded by _____

Signature of Candidate