

# SAMPLE QUESTIONS FOR **COMPUTER BASED PRE-ADMISSION ENTRY TEST** BACHELOR PROGRAMMES (REGULAR/SELF FINANCE)

- Each Section carries five examples of the question type contained in the Test Paper in the subject of English, Mathematics/Biology/Economics/English Comprehension, Physics/Statistics/Business Mathematics, Basic Mathematics and Chemistry/Computer Science/Accounting/General Knowledge.
- For further details related to structure of question paper for different groups, please refer to FAQs on <https://www.neduet.edu.pk/sites/default/files/Admissions-2023/FAQ.pdf>
- Duration of the Test shall be two hours.

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## (SAMPLE QUESTIONS)

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### SECTION I (ENGLISH)

1. Choose the alternative closest in meaning to the underlined words in the following sentence.  
He is good at making model airplanes.  
(A) useful (B) competent (C) clever (D) skillful
2. Choose one word to fit the meaning in the following sentence.  
The teacher asked him to \_\_\_\_\_ his mistake.  
(A) expect (B) accept (C) aspect (D) inspect
3. Which of the underlined words (given below as options) is incorrect?  
The idea for the air-supported plastic structures has come from an aeronautical engineer in 1945.  
(A) for (B) has come (C) an (D) in
4. Choose the best option to complete the sentence.  
Bilal graduates from this University, he wants to go abroad for higher studies.  
(A) By the time (B) After (C) Before (D) Until
5. Read the given paragraph and choose the best option as the summary.  
For centuries Asia has suffered under the insolence of the White Man, I have myself seen this insolence in ways that made my blood boil and that, if I had been and Asian and not a European would have roused me to fury. This long experience of European domination has naturally produced a mood of resistance, and, as always happens in such cases, there is a danger lest the fight for independence should become a desire for conquest.  
(A) The White Man's behaviour has produced a rebellious attitude among the Asians.  
(B) The White Man's insolence has affected both the Europeans and the Asians.  
(C) There is danger that the Asians may strike back in reaction to the White Man's domination.  
(D) Asians have suffered at the hands of the Europeans.

**SECTION II (MATHEMATICS) - (For Pre-Engineering Group)**

1. The product of (2,3) and (1,1) is .  
(A) (2,3)                      (B) (1,5)                      (C) (1,-5)                      (D) (-1,5)
  
2.  $\operatorname{cosec} 2x - \cot 2x =$   
(A)  $\sec x$                       (B)  $\cos x$                       (C)  $\cot x$                       (D)  $\tan x$
  
3. The limit of  $(x^2 - 4) \div (x^2 - 2x)$  as  $x$  tends to 2 is .  
(A) 0                      (B) 2                      (C) -2                      (D) 4
  
4. Equation of normal to the parabola  $y = 5 - x^2$  at the point where  $x = 2$  is .  
(A)  $4y - x = 8$                       (B)  $4y - x = 2$                       (C)  $y + 4x = 9$                       (D)  $y + 4x = 7$
  
5.  $\int_1^2 (x - \frac{1}{x^2}) dx =$   
(A) 0                      (B) 1                      (C) 2                      (D) 4

**OR**

**SECTION II (BIOLOGY) - (For Pre-Medical Group)**

1. In plants, inorganic salts are absorbed from the soil to the upper regions of the plants where they can be utilized during metabolism. This process is known as:  
(A) Transportation                      (B) Transpiration                      (C) Photosynthesis                      (D) Osmosis
  
2. Which of the following statements is NOT true?  
(A) Arteries have a smaller lumen than veins.  
(B) Arterial walls contain much elastic tissue and smooth muscle.  
(C) Blood flow through veins occurs against gravity.  
(D) Arteries carry blood towards the heart.
  
3. "The appearance of an individual on the basis of inherent traits including both physical and Physiological" is the definition of  
(A) Phenotype                      (B) genotype                      (C) homozygous                      (D) heterozygous
  
4. Protein synthesis takes place in  
(A) Ribosome                      (B) Mitochondria                      (C) Endoplasmic Reticulum                      (D) Golgi apparatus
  
5. Which of the following, regarding DNA, is incorrect?  
(A) Adenine pairs with Tyminine  
(B) cytosine pairs with Gnanine  
(C) There are two hydrogen bonds between A and T (A=T) and three between c and G (c=G)  
(D) The coiling of double helix is left handed.



### SECTION III (PHYSICS)

- The magnitude of the resultant vector of the vectors  $2\mathbf{i} + 2\mathbf{j} - \mathbf{k}$  and  $\mathbf{j} + 7\mathbf{k}$  is .  
(A) 0 (B) 5 (C) 7 (D) 10
- If  $g = 9.8 \text{ m/sec}^2$  at the surface of earth, the value of 'g' at a height equal to the radius of earth is .  
(A) 0 (B) 2.45 (C) 4.9 (D) 9.8
- The coefficient of cubical expansion of a substance depends upon .  
(A) change in volume (B) original volume  
(C) rise in temperature (D) none of these
- A radio station broadcasts at frequency of 2000 kHz, having a wave length of  
(A) 2000 m (B) 1000 m (C) 300 m (D) 150 m
- Gamma rays are fast moving .  
(A) electrons (B) protons (C) neutrons (D) photons

OR

### SECTION III (STATISTICS) - (For Science Group / Statistics)

- Find the modal value of the following data 2, 3, 4, 5, 6, 6, 7, 8?  
(A) 5 (B) 7 (C) 6 (D) 8
- How many committees of size 3 can be formed from a group of 4 men and 5 women, if there is no restriction?  
(A) 508 (B) 84 (C) 42 (D) 61
- Find the number of permutation of letters of the word, all taken together THATTA? (A) 60  
(B) 720 (C) 120 (D) 150
- If two coins are tossed simultaneously find probability that at least 1 head appears. (A) 0.25  
(B) 0.50 (C) 0.75 (D) 1.00
- If  $A = [0, 1, 2, 3]$ ,  $B = [2, 3, 4]$ ,  $C = [4, 5, 6, 7, 8]$  find the order of  $(A \cup B)$ ?  
(A) 15 (B) 5 (C) 7 (D) 10

OR

**SECTION III (BUSINESS MATHEMATICS) - (For Commerce Group)**

1. if  $\frac{a^2 - b^2}{a+b} = \frac{6}{3}$  then  $a - b =$  \_\_\_\_\_  
(A) 6 (B) 2 (C) 3 (D) None of these.
2. If  $x : 4 :: 3 : 2$  then  $x =$  \_\_\_\_\_  
(A) 8 (B) 6 (C)  $\frac{8}{3}$  (D)  $\frac{3}{2}$
3. Effective rate of interest can be computed by the formula \_\_\_\_\_.  
(A)  $e = \left(1 + \frac{i}{m}\right)^m - 1$  (B)  $e = \left(1 - \frac{i}{m}\right)^m$  (C)  $e = \left(1 + \frac{i}{m}\right)^m$  (D) None of these
4. In a binary system, the decimal number 4 is equivalent to \_\_\_\_\_?  
(A) 111 (B) 110 (C) 100 (D) 101
5. If determinant of matrix  $\begin{bmatrix} 1 & x \\ 1 & 2 \end{bmatrix} = 0$ , then  $x =$  \_\_\_\_\_  
(A) 1 (B) 0 (C) 2 (D) -2

OR

**SECTION III (BASIC MATHEMATICS) - (For Humanities Group)**

1. If set  $A = \{1, 2, 3, 4\}$  and set  $B = \{a, b, c, d\}$ , the order of  $A \cup B$  is \_\_\_\_\_  
(A) 4 (B) 8 (C) 2 (D) 16
2. The average of five number 1, 2, 3, 4, x is 5, find x?  
(A) 5 (B) 15 (C) 10 (D) 20
3. One root of the equation  $x^2 + 5x - 6 = 0$  is \_\_\_\_\_  
(A) 2 (B) 3 (C) 0 (D) -6
4. If Matrix  $A = \begin{bmatrix} 7 & 4 \\ 3 & 2 \end{bmatrix}$  and Matrix  $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ , find determinant of  $A+B$  is \_\_\_\_\_  
(A) 12 (B) 24 (C) 0 (D) 36
5. The linear equation  $x + y = 1$  and  $x = 2$ , find the value of x and y?  
(A) 1 & -1 (B) 2 & -1 (C) 2 & 1 (D) 3 & -1

## SECTION IV (CHEMISTRY)

- Under what conditions of temperature and pressure will a real gas behave most like an ideal gas?  
(A) low temperature & low pressure    (B) low temperature & high pressure  
(C) high temperature & low pressure    (D) high temperature & high pressure
- For complete oxidation, 1 mol of an organic compound requires 3 mol of oxygen gas. What could be the formula of the compound?  
(A)  $\text{CH}_3\text{CH}_2\text{OH}$     (B)  $\text{CH}_3\text{CHO}$     (C)  $\text{CH}_3\text{CH}_3$     (D)  $\text{CH}_3\text{CO}_2\text{H}$
- Ammonia gas can be obtained by heating an ammonium salt with \_\_\_\_\_.  
(A) an acid    (B) an alkali    (C) an oxidizing agent  
(D) a reducing agent
- An example of a polymer made from two different monomers is \_\_\_\_\_.  
(A) polythene    (B) nylon    (C) PVC    (D) protein
- Maximum possible number of electrons in an energy level or shell 'n' is given by  
(A)  $2n^2$     (B)  $4n^2$     (C)  $4n$     (D)  $2n^4$

OR

## SECTION IV (COMPUTER SCIENCE) - (For Science Group)

- The component of CPU that manages all operations is called?  
(A) Arithmetic and Logic Unit    (B) control Unit  
(c) Linker    (D) Memory Unit
- \_\_\_\_\_ is the name of a computer virus.?  
(A) Hypertext    (B) Boot sector  
(C) Trojan Horse    (D) Shell
- \_\_\_\_\_ is a small amount of storage available as part of CPU?  
(A) Buffer    (B) ROM  
(C) RAM    (D) Register
- \_\_\_\_\_ is computer software designed to operate and control the computer hardware and to provide a platform for running  
(A) Application software, system software    (B) Application software, system software  
(C) System software, operating system    (D) Application software, operating system
- The \_\_\_\_\_ statement computes the value of an arithmetic expression and assigns the result of that to a variable.  
(A) LET    (B) FOR  
(C) REM    (D) Data



OR

**SECTION IV (GENERAL KNOWLEDGE) - (For Humanities Group)**

1. Which surah is preface of Holy Quran?

(A) Al-fatiha

(B) Al-Baqarah

(C) Al-Ikhlās

(D) Al-Falaq

2. Prophet Muhammad (PBUH) belonged to \_\_\_\_\_ family.

(A) Banu Anus

(B) Banu Khuzah

(C) Banu Hashim

(D) Banu Qainoqua

3. USA, UK, France, Russia and China are the permanent members of;

(A) UNO

(B) European Union

(C) Security Council

(D) Council of Welfare

4. Who is associated with the creation of Facebook?

(A) Mark Zuckerberg

(B) Steve Jobs

(C) Bill Gates

(D) Larry Page

5. Which is the planet closest to the sun in the solar system?

(A) Venus

(B) Mercury

(C) Mercury

(D) Jupiter