

**SAMPLE TEST PAPER
FOR (ENTRY TEST)
APPLIED PHYSICS / BSCS / BSSE**

ENGLISH

Complete the sentences by choosing the most appropriate word, from the given lettered choices (A to D) below each.

1. Ahmad always seeks _____ wealth.

- A. from
- B. with
- C. to
- D. for

Each question below consists of a related pair of words, followed by five lettered pairs of words. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

2. **PAGE: BOOK::**

- A. sailors: crew
- B. petal: flower
- C. leaf: stalk
- D. singers: chorus

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

3. **PARTICULAR:**

- A. general
- B. widespread
- C. diffused
- D. common

Choose the word most similar in meaning to the capitalized ones.

4. **CHANGE:**

- A. alter
- B. church
- C. complete
- D. decide
- E. agree

Read the passage to answer questions 5-6

The vast multitude of stars are wandering about in space. A few form groups which journey in company, but the majority are solitary travelers. And they travel through a universe so spacious that it is an event of almost unimaginable rarity for a star to come anywhere near to another star. For the most part each voyages in splendid isolation, like a ship on an empty ocean. In a scale model in which the stars are ships, the average ship will be well over a million miles from its nearest neighbor, whence it is easy to understand why a ship seldom finds another within hailing distance.

5. Which of the following is incorrect according to the passage?

- A. Most of the stars travel in isolation**
- B. The universe is very large**
- C. A star very frequently comes near to another one**
- D. A star very rarely comes near to another one**
- E. Some stars travel in groups**

6. In the passage the "ship" symbolizes:

- A. space**
- B. traveler**
- C. universe**
- D. ocean**
- E. star**

IQ / GK

7. If $4 \times 5 = 1620$, $3 \times 8 = 924$ then $7 \times 6 = ?$

- A. 1740
- B. 1880
- C. 4949
- D. 4942

8. A father is 5 times as old as his son. In 18 years, the father will be twice as old as his son. How old is the father at present?

- A. 20 years
- B. 30 years
- C. 50 years
- D. 40 years

9. When was Sui Gas first discovered in Pakistan?

- A. 1959
- B. 1952
- C. 1981
- D. 1989

10. Sun is a(n):

- A. star
- B. asteroid
- C. planet
- D. satellite

CHEMISTRY

17. Viscosity of liquids depends upon:

- A. Temperature
- B. Size of molecule
- C. Shape of molecule
- D. Inter-molecular forces
- E. All of the above

18. Which pair of gases have same rate of diffusion at STP?

- A. H_2 and Ne
- B. O_2 and CO
- C. CO_2 and C_3H_8
- D. CO_2 and SO_2

PHYSICS

11. Which of the following quantities is a scalar?

- A. magnetic moment
- B. acceleration due to gravity
- C. electric field
- D. electrostatic potential

12. A particle is projected at angle of 45° with a velocity of 9.8ms^{-1} .
The horizontal range will be:

- A. $9.8 / \sqrt{2}\text{m}$
- B. $9.8\sqrt{2}\text{m}$
- C. 9.8m
- D. 4.9m

MATHS

13.If $\cos \theta + \sin \theta = \sqrt{2} \cos \theta$, then $\cos \theta - \sin \theta = ?$

- A. $\sqrt{2} \sin \theta$
- B. $\frac{1}{\sqrt{2}} \cos \theta$
- C. $\frac{1}{\sqrt{2}} \sin \theta$
- D. None of the above

14.The probability of getting the product a perfect square (square of a natural number), when two dice are thrown together, is:

- A. $\frac{2}{9}$
- B. $\frac{4}{9}$
- C. $\frac{1}{3}$
- D. 5

COMPUTER

15. Relational database is previewed by user as:

- A. a collection of tables
- B. a collection of attributes
- C. a collection of rows and columns
- D. a collection of rows only

16. Pointer variables are used for storing:

- A. Data values
- B. Address of another variable
- C. Both data values and address
- D. None of the above

STATISTICS

21. Zahid received the following scores on his math tests during the last semester: 82, 83, 78, 90, 94, 91, 91, 89, 82. What was his median score?

- A. 83.5
- B. 86
- C. 86.6
- D. 89

22. The probability of 'happening' or 'not happening' of an event is:

- A. 1
- B. 2
- C. $1/3$
- D. 5
- E. 8

Economics

1. When the rate of tax increases as the tax base increases it is called:

- A. Proportional tax**
- B. Progressive tax**
- C. Regressive tax**
- D. Diversity of tax**

2. The goods, the benefits of which are available in a non-rival fashion are termed as:

- A. Private goods**
- B. Public goods**
- C. Commercial goods**
- D. Usual goods**
- E. Government goods**