

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
2	$Q \cup Q' =$	A. Q B. Q' C. N D. R
3	Such fraction which can not be written in the form of $\frac{p}{q}$ where p,q and $q \neq 0$, such fractions are called.	A. Fractional numbers B. Rational Numbers C. Even Numbers D. Whole Numbers
4	It is not possible to find the exact value of	A. π B. $\sqrt{9}$ C. $\sqrt[3]{27}$ D. $\sqrt{1}$
5	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. Irrational numbers
6	The decimal fraction in which we have finite number of digits in its decimal part is called.	A. recurring decimal fraction B. Non terminating fraction C. Non recurring fraction D. terminating decimal fraction
7	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
8	There is no element common in	A. N and W B. E and W C. N and O D. Q and Q'
9	Union of the sets of rational and irrational numbers is called 6th set of	A. Natural numbers B. Real numbers C. Whole numbers D. Prime numbers
10	The set of rational number is represented by	A. W B. R C. Q' D. Q
11	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
12	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar
13	The real number system contains.	A. Positive Numbers B. Negative numbers C. Zero D. (option a, b and c)
14	Gooch crucible is made of :	A. Brass. B. Porcelain. C. Bronze. D. Gold.
15	Question Image <input style="width: 200px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. ..

D. None

16 If C is the mid point of AB and P is any point outside AB, then

17 Question Image

- A. A, B, C are coincident
- B. A, B, C are collinear
- C. Both A and B
- D. None of these

18 Question Image

19 Question Image

20 Question Image

21 $3j \cdot k \times i$

- A. 0
- B. 1
- C. 3
- D. 9

22 The angle between the vectors $3i + j - k$ and $2i - j + k$ is

23 Question Image

- A. A
- B. 0
- C. Unit vector
- D. None

24 If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$

- A. 0
- B. 2
- C. 4
- D. 7

25 If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is

- A. 12
- B. 6
- C. 3
- D. 0

26 Question Image

- A. 0
- B. 90°
- C. 180°
- D. 360°

27 Question Image

28 The direction cosines of y-axis are

- A. 1, 0, 0
- B. 0, 1, 0
- C. 0, 0, 1
- D. 1, 1, 1

29 Question Image

- A. $l^2 + m^2 + n^2 = 0$
- B. $l^2 - m^2 + n^2 = 1$
- C. $l^2 + m^2 + n^2 = 1$
- D. $l^2 + m^2 - n^2 = 0$

30 Which of the vectors have opposite direction?