

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 8 B. 9 C. 10 D. 11
2	if the value of the sphere, $v = \frac{4}{3}\pi r^2$, then the which of the following statement is true?	A. r is the function of v B. v is the function of r C. π is independent variable D. None of these
3	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivations of corn requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs. 20 per hectometer for corn and Rs. 15 per hectometer for wheat. The profit function for the farmer is	A. $P(x, y) = 20x + 15y$ B. $P(x, y) = 2x + 3y$ C. $P(x, y) = x + y$ D. $P(x, y) = 3x + 2y$
4	Which of the following has the same value as i^{113} ?	A. i B. -1 C. -i D. 1
5	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
6	Four cards are drawn at random from a pack of 52 playing cards. The probability of getting all the four cars of the same suit is	A. $\frac{44}{4165}$ B. $\frac{22}{4165}$ C. $\frac{11}{4165}$ D. None of these
7	Question Image	A. A B. -A C. $A ^t$ D. $A ⁻$
8	The parabola $y^2 = x$ is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line $y = x$
9	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
10	In quadratic equation, if the replacement of y with -y leaves the equation unchanged, then the graph is	A. Straight line B. Circle C. Hyperbola D. Symmetric w.r.t.0
11	Question Image	A. $a ² b ² c ²$ B. $4a ² b ² c ²$ C. 4abc D. None
12	Question Image	
13	The set of points $\{(x,y) y = f(x), \forall x \in \}$ is called	A. Relation B. Graph of f C. Function D. All are correct
14	Question Image	
15	Question Image	
16	A square matrix $A = [a_{ij}]$ is lower triangular matrix when	A. $a_{ij} = 0$ for all $i < j$ B. $b_{ij} = 0$ C. $c_{ij} = 0$ D. $d_{ij} = 0$

A. A linear equation

17	$(x + 2)^2 = x^2 + 4x + 4$ is	<p>A. A linear equation B. A cubic equation C. A quadratic equation D. None</p>
18	The distance of the point (a,b) from y-axis is	<p>A. a B. b C. a + b</p>
19	Tangent is a periodic function and its period is _____	<p>A. 2π B. 3π C. π D. 4π</p>
20	The graph of a linear function is	<p>A. a circle B. triangle C. a straight line D. none of these</p>