

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The value of the expression $\sin\theta + \cos\theta$ lies between	
2	If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is	
3	A quadrilateral whose diagonals are perpendicular bisector of each other is	A. Square B. Rectangle C. Rhombus D. Parallelogram E. Trapezium
4	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
5	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
6	Which of the following is factor of $x^{11} + a^{11}$, where n is an odd integer	A. x-a B. x+a C. 2x-a D. 2x+a
7	$(a+bi) - (c+di) =$	A. $(a+b) = (c+d)$ B. $(a+c) + i(b+d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
8	Question Image	A. 2 B. 4 C. 3 D. 16
9	Question Image	A. $4(x^3 - 3x^2 + 3x + c)$ B. $3x^3 - 6x + c$
10	Question Image	
11	Question Image	A. 6 B. 360 C. 120 D. 24
12	The points A(+1,-1), B(3,0), C(3,7), D(1,8) are vertices of	A. Square B. Parallelogram C. Rectangle D. Trapezium
13	Question Image	
14	Question Image	A. 2 B. 1 C. 5 D. 0
15	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of these
16	Question Image	
17	If $4 {}^6P_r = {}^6P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1
18	The coefficient of x^n in the expansion of $(1-x)^{-1}$ is	A. $(-1)^n n!$ B. 1 C. $(-1)^n n(n+1)$ D. $(-1)^n n!$

D. (n+1)

19 The solution of differential equation:

A. $\frac{dy}{dx} + \frac{y}{x} = x^2$ is :

B. $4xy = x^4 + c$

C. $4x = x^4 = c$

D. $4y = x^4 + c$

E. $4x = 4x^3 + c$

20 Question Image