Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. An expression B. Rational fraction C. Equation D. Identity
2	$(A \cup B) \cup C=$ -------------------------	A. $A \cap B(B \cup C)$ B. $A \cup (B \cup C)$ C. $A \cup (B \cap C)$ D. None of these
3	Question Image	
4	If $A \subseteq B$, and B is a finite set, then	A. n (a) < n(B) B. n(B)<(A) C. $n(A) \leq n(B)$ D. $n(A) \geq n(B)$
5	A non-terminating non_recurring decimal represents an	A. Irrational no B. Both a & c C. Rational no D. None of these
6	Question Image	
7	If $k2x2 + 2hxy - 4y2 = 0$ represents two perpendicular lines then	A. k = 2 B. k = ±2 C. k = -2 D. k ≠0
8	The quadratic formula is	
9	Derivative of x^3 w.r.t x is	A. 0 B. 1 C. $3x^2$ D. x^3
10	The vertex of the equation $y^2 = 4ax$ is:	A. (2, -2) B. (1,1) C. (0 , 0) D. (2 , 2)
11	Question Image	A. A B. A' C. U D. None of these
12	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, b^2 are in	A. A.P. B. G.P. C. H.P. D. None of these
13	Three integers are chosen at random from the first 20 integers. Then probability that their product is even, is	A. 2 / 19 B. 3 / 29 C. 17 / 19 D. 4 / 19
14	The angles of elevation of the top of a tower at the top and the foot of a pole of height 10 m are 30° and 60° respectively. The height of the tower is	A. 10 m B. 15 m C. 20 m D. None of these
15	The general equation of circle $x^3 + y^3 + 2gx + 2fy + c = 0$, contains:	A. Three independent variables B. Two independent conntants C. Three indepentent parameters D. Three independent constants
16	45° = _____	
17	The point R dividing internally the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ in the ratio $K_1 : K_2$ has the coordinates	
18	Question Image	A. A = C B. A = B C. B = C

19	Which one is quadrantal angle	A. 8181710° B. 2345° C. -8181180° D. -2344°
20	Question Image	