Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The unit vector along x-axis is	D. none of these
2	Question Image	
3	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$ then which expression defines the product of z_1 and z_2	A. 36 +(-32)i B. -36+32i C. 6+(-11)i D. 0, +(-12)i
4	If A is singular then $|A| = $ _____	A. 1 B. 0 C. 2 D. None of these
5	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
6	Question Image	
7	The maximum value of sin x + cos x is	
8	The points (5, -4, 2),(4, -3, 1),(7, -6, 4),(8, -7, 5) are vertices of a	A. Square B. Parallelogram C. Rectangle D. Rhombus
9	If d_1 is the distance between (0,0) and (1,2) and d_2 is the distance between (0,0) and (2,1) then	A. $d_1 = d_2$ B. $d_1 < d_2$ C. $d_1 > d_2$ D. none of these
10	Question Image	A. 0 B. 20 C. 90 D. 80
11	If a,b,c are in arithmetic progression, then 1/a,1/b.1/c are in	A. A.M B. G.M C. H.M D. G.P
12	The identity element with respect to subtraction is	A. 0 B. -1 C. 0 and 1 D. None of thes
13	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
14	Question Image	
15	Consider the equation $px^2 + qx + r = 0$ where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0,p ≠ 0 B. p = 0,qr≠ 0 C. r = 0,pq≠ 0 D. q = 0, pq≠ 0
16	Question Image	A. cos 3x + c B. - cos 3x + c
17	$\forall a,b,c \in R$, a >b ∧ b>c ⇒ a >c is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
18	O is _____	A. A positive integer B. A negative integer C. A natural number D. An integer
19	If $\sin 6\theta + \sin 4\theta + \sin 2\theta$, then $\theta =$	

If $\sin 3\theta = \sin \theta \cdot \sin 2\theta$, there

20	Question Image	A. $5x^4 + c$ B. $\frac{1}{6}x^6 + c$ C. $5x^2 + c$ D. $\frac{1}{5}x^6 + c$