Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The intercepts of the plane 2x - 3y + 4z = 12 on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
2	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
3	The seventh term of an A.P whose first term is P and common difference is q. is	A. P-6q B. P+6q C. P-4q D. P-nq
4	Question Image	
5	cos(a +β)-cos(a-β) = _____;	A. 2cosa cosβ B. 2sina cosβ C. -25 in a cosβ D. -2sin a sinβ
6	If $x^3+ ax^2- a^2x - a^3$is divided by x + a, then the remainder is	A. 0 B. a³ C. 2a³ D. -2a³
7	sin (α -β)=	A. sinαcosβ- cosαsinβ B. sinαcosβ+ cosαsinβ C. sinαcosα- cosβsinβ D. sinαcosα- cosβsin<span style="font-family: "Times New

		Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);">β
8	Question Image	
9	Area bounded between the curve xy=2 and the lines x=1 and x=2	A. ln2 square units B. ln√2 square units C. ln4 square units D. Square units
10	Which of the following does not represent absolute value of a vector	A. magnitude B. length C. norm D. number
11	The point which divides the line joining the points (2, 4, 5) and (3, 5, -4) in the ratio -2 : 3 lines on	A. ZOX plane B. XOY plane C. YOZ plane D. None of these
12	Question Image	
13	Question Image	B. a^xln a + c C. a^x+ c D. x a^x+ c
14	Question Image	
15	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
16	When we expand $(a + 2b)^5$then	A. a⁵+ 10a⁴b + 40a³b²+ 80a²b³+ 80ab⁴+ 32b⁵ B. a⁵+ a⁴b + a³b²+ a²b³+ ab⁴+ b⁵ C. 5a⁵+ 4a⁴b + 3a³b²+ 2a²b³+ 1 ab⁴+ b⁵ D. None
17	Express as a sum or difference: 2 sin $5\theta\cos\theta$	A. cos 4θ- cos 2θ B. sin 4θ+ sin 2θ C. cos 4θ+ cos 2θ D. sin 4θ-

		sin 2θ
18	Every set is an improper subset of	A. Empty set B. Equivalent set C. Itself D. Singleton set
19	Find a if 1 is a root of the equation $x^2 + ax + 2 = 0$	A. 3 B. -3 C. 2 D. 0
20	Question Image	