

Mathematics General Science Test Medium Mode

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Sr	Questions	Answers Choice
1	i ⁹ =	A. i ² B1 C. 1 D. i
2	The probability that a person A will be alive 15 years hence is 5/7 and the probability that another person B will be alive 15 years hence is 7/9. Find the probability that both will be alive 15 years hence	A. 4/63 B. 5/9 C. 45/49 D. None of these
3	Question Image	
4	The period of the function $f(x) = \sin^4 x + \cos^4 x$ is	A. <i>¬π</i>>>/span style="color: rgb(34, 34, 34); font-family: " Times New Roman"; font-size: 24px; textalign: center; background-color: rgb(255, 255, 224);"><i>¬π</i> /2 C. 2 <i>¬π</i> D. None of these
5	Question Image	
6	Question Image	
7	Question Image	A. a ^x B. a ^x ln a
8	Which symbolic notation represent unary operation ?	A B. V C. ∧ D. ⇔
		A. 4 B. 3
9	Question Image	C. 2 D. 1
10	For all positive integral value of n,3 $^{\text{n}}$ < n! , when	A. n> 6 B. n< 6 C. n<11 D. n>11
11	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 externally are	
12	The coefficient of x^{18} in $(ax^4-bx)^9$ after expansion is	A. 84a ³ b ⁶ B. 22a ³ b ⁶ C. 27a ⁴ b ⁵ D. 28a ³ b ⁶
13	The slope of x-axis is	A. 0 B. undefined C. 1
14	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule of fractions D. Rule for quotient of fractions
15	The range of y=x2 + 1 is the set of non-negative real numbers except	A. 0≤ y < 1 B. 0 < y < 1 C. 0≤ y≤ 1 D. 0 < y≤1

16	The domain of the function x/x^2 -4 is given by	A. R B. R + 2 C. [R - (<u>>+</u> 2) D. R-4
17	The distance of the point (a, b) from x-axis is	A. a B. b C. a + b
18	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
19	The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45^{\square} . The height of the tower is	A. 37m B. 97m C. 101m D. 70m
20	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10