

Mathematics General Science Test Medium Mode

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Sr	Questions	Answers Choice
1	If a_1 , r and a_n are the first term, common ratio and the nth term respectively of a G. P. then a_n =	A. a ₁ r ⁿ B. a ₁ r ⁿ⁻¹ C. a ₁ r ⁿ⁺¹ D. a ₁ r
2	The equations of the line thro' the point (2, 3, -5) and equally inclined to the axis are	
3	The n numbers A_1,A_2,A_3,A_n are called an arithmetic means between a and b if a.A ₁ ,A ₂ ,A ₃ A _n , b is	A. An arithmetic series B. An arithmetic sequence C. A geometric sequence D. A harmonic sequence
4	The sum even binomial coefficient of (3+2x)5 isterm	A. 16 B. 30 C. 8 D. 32
5	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
6	120°=	
7	Question Image	A. N B. r C. 2r D. <i>π</i>
8	The standard parabolic form of the equation $f(x) = x^2 + 4x + 1$ is	A. x(x+4)+1 B. (x+2) ² -3 C. (x+4) ³ + 9 D. x(x-2) ² +1
9	Apollonius was a:	A. Rocket B. Muslims scientist C. Greek mathematicians D. Method of finding conics
10	2cos2 a/2 =;	A. 1+sina B. 1-sina C. 1+cosa D. 1-cosa
11	The equation x^2 + y^2 = 0 represents	A. A circle B. A degenerate circle C. An empty set D. A st. line
12	If p and q are two statements then their biconditional 'p if q' is denoted by	
13	Question Image	
14	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
15	A prime number can be a factor of a square only if it occurs in the square at least	A. Once B. Thirce C. Twice D. None of these
16	The identity element with respect to subtraction is	A. 0 B. 1 C1 D. Does not exist
17	If a_1 and r are the first term and the common ratio respectively then $(n + 1)$ th term of the $G P$ is	A. 0 B. a ₁ r ⁿ⁻¹ C a ₁ r ⁿ⁺¹

	O.I 10	D. a ₁ r ⁿ
18	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45° . The height of the chimney is	
19	The integral of 3x ⁵ dx is:	A. 15 x ⁴ B. x ⁶ /2 C. 1/6x ⁵ D. x ⁵ /ln3
20	Question Image	A3 -2i B. 3 +2i C. 1 + 2i D. 1 - 2i