Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	A tower subtends an angle α at a point on the same level as the root of the tower and at a second point, b meters above the first, the angle of depression of the foot of the tower is β. The height of the tower is	A. b cot α tan β B. b tan α tan β C. b tan α cot β D. None of these
3	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these
4	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. 1/5 B. 1/36 C. 1/7 D. 1/63
5	If $f(x) = -x^3$ then $f(-2)$ is	A. -2 B. -4 C. -8 D. 8
6	Question Image	
7	In a school, there are 150 students. Out of these 80 students enrolled for mathematics class, 50 enrolled for English class, and 60 enrolled for Physics class. The students enrolled for English cannot any other class, but the students of mathematics and Physics can take two courses at a time. Find the number of students who have taken both physics and mathematics	A. 40 B. 30 C. 50 D. 20
8	In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then Ĉ is	A. 69° B. 66° C. 60° D. 63°
9	For which of the following ordered pairs (s, t) is s + t > 2 and s - t < -3?	A. (3, 2) B. (2, 3) C. (1, 8) D. (0, 3)
10	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute D. Radian
11	Sine is a periodic function and its period is _____	A. π B. s C. 2

12	The transport of a square matrix is a	A. Row matrix B. Column matrix C. Square matrix D. Null matrix
13	Question Image	
14	2x = 3 is a conditional equation it is true for	A. 2 B. 3 C. 3/2 D. 2/3
15	$\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to	A. $\frac{1}{2}\cos^{-1}(3/5)$ B. $\frac{1}{2}\sin^{-1}(3/5)$ C. $\frac{1}{2}\tan^{-1}(3/5)$ D. $\tan^{-1}1/2$
16	The difference of two consecutive terms of an A.P is called the	A. Common difference B. Common ratio C. Geometric series D. Geometric mean
17	Question Image	
18	The number of divisors of 1029, 1547 and 122 are in	A. A.P. B. G.P. C. H.P. D. None of these
19	Question Image	
20	The eccentricity of the parabola $y^2 = -8x$ is	A. -2 B. 2 C. -1 D. 1