

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The vertex of the standard position angles lies on	A. (0,0) B. (0,1) C. (1,0) D. (1,1)
2	If $a_1 = a_2 = 2$, $a_n = a_{n-1} - 1$ ($n > 2$), then a_5 is	A. 1 B. 0 C. -1 D. -2
3	The parabola $y^2 + 2y + x = 0$ lie in _____ quadrant.	A. First B. Second C. Third D. Fourth
4	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
5	Which of the following is the definition of singleton	A. The objects in a set B. A set having no element C. A set having no subset D. None of these
6	In following question, a number series is given with one term missing. choose the correct alternative that will same pattern and fill in the blank spaces. 1 , 4, 9, 16, 25, x	A. 35 B. 36 C. 48 D. 49
7	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. $n < 8/5$ B. $n < 5/8$ C. $ n < 8/5$ D. $ n > 8/5$
8	If (0, 0) and (0, -1) are end points of a diameter, then the equation of the circle is	
9	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 4 B. 3 C. 2 D. 1
10	If $s = 2t^3 - 3t^2 + 15t - 8$ is the equation of motion of a particle, then its initial velocity is	A. 8 B. 15 C. -6 D. None
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
12	$\sin 5\theta + \sin 3\theta =$ _____;	A. $2\sin 4\theta \cos \theta$ B. $2\cos 4\theta \sin \theta$ C. $2\cos 4\theta \cos \theta$ D. $-2\sin 4\theta \sin \theta$
13	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 1, 1/2, 0 B. 1, 2, 1 C. 1, 2, 3 D. 1, 2, 0
14	An infinite arithmetic series is always	A. Convergent B. Oscillatory C. Divergent D. None of these
15	The period of $\tan x/7$ is	A. 3π B. 7π C. 15π D. 5π
16	Associative law of multiplication	A. $ab = ba$ B. $a(bc) = (ab)c$ C. $a(b+c) = ab + ac$ D. $(a + b)c = ac + bc$
17	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12

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- 18 Question Image
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- 19 If A is a non-singular matrix then adj A is
- A. Non-singular
 - B. Symmetric
 - C. Singular
 - D. Non defined
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- 20 Vector \underline{i} =
- A. [1,0]
 - B. [0,1,0]
 - C. [0,0,1]
 - D. None of these
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