

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -2 D. 10
3	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
4	The general value of $\theta$ satisfying the equation $2 \sin^2\theta - 3 \sin\theta - 2 = 0$ is	
5	The point P (5,8) and the origin lie on the side of the line $3x + 7y + 15 = 0$	A. Same side B. P above and origin below C. Opposite side D. P below and origin above
6	If $\Delta ABC$ is right triangle then the law of Cosines reduces to	A. The Pythagoras Theorem B. The law of Sines C. The law of cosines D. The law of tangents
7	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2 b B. 2 a C. 2 ab D. a + b
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	Consider the equation $px^2 + qx + r = 0$ where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. $q = 0, r = 0, p \neq 0$ B. $p = 0, qr \neq 0$ C. $r = 0, pq \neq 0$ D. $q = 0, pq \neq 0$
11	The point where the axis meets the parabola is called	A. Directrix B. Foucu C. Chord D. Vertex
12	The smallest positive root of the equation $\tan x - x = 0$ lies on	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2C B. $C^3$ C. 1 D. 0
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 20 B. 10 C. 0 D. None of these
16	The three consecutive numbers a, $\sqrt{ab}$ , b are in	A. G.P B. H.P C. G.M D. None of these
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Principle of equality of Fractions B. Rule for product of fraction C. Golden rule of fraction D. Rule of quotient of Fraction
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $4x + 1$ B. $4x$ C. $2x^3$ D. ...

D. none of these

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Question Image

- A.  $a^x$
- B.  $a^x \ln a$

20

Optimize means \_\_\_\_\_ a quantity under certain constraints

- A. Minimize
- B. Maximize
- C. Maximize or minimize
- D. None of these