

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. <span style="color: green;">Terminating decimals</span> D. None of above
2	Period of $3 \sin x$ is _____	
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Closure law of addition B. Associative law of addition C. <span style="color: green;">Commutative law of multiplication</span> D. Associative law of multiplication
4	The discriminant of the quadratic equation $ax^2 + bx + c = 0$ is	A. $b^2 - 4ac$ B. <span style="color: green;"><math>b^2 - 4ac</math></span> C. $4ac - b^2$ D. $a^2 - 4ac$
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	The sum of the roots of the equation $x^2 - 6x + 2 = 0$ is	A. -6 B. 2 C. -2 D. <span style="color: green;">6</span>
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. (-1, 2) B. (-1, 1) C. (1, 2) D. <span style="color: green;">{-1}</span>
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	The number of subset of $\{0\}$ is	A. 1 B. <span style="color: green;">2</span> C. 3 D. None
10	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a hyperbola C. <span style="color: green;">a circle</span> D. a parabola
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. <span style="color: gray;">&lt;span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);"&gt;&lt;i&gt;π&lt;/i&gt;&lt;/span&gt;/ 4</span> B. <span style="color: gray;">&lt;span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);"&gt;&lt;i&gt;π&lt;/i&gt;&lt;/span&gt;/ 4</span> C. <span style="color: gray;">&lt;span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);"&gt;&lt;i&gt;π&lt;/i&gt;&lt;/span&gt;/ 6</span> D. <span style="color: green;">&lt;span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);"&gt;&lt;i&gt;2π&lt;/i&gt;&lt;/span&gt;/ 3</span>
12	If A(a,b) lies on $3x + 2y = 13$ and point B(b,a) lies on $x - y = 5$ then equation of AB is	A. $x - y = 5$ B. $x + y = 5$ C. $x + y = -5$ D. <span style="color: green;"><math>5x + 5y = 21</math></span>
13	Water seeps out of a conical filter at a constant rate of 5 cm/sec. the height of the cone of water in the filter is 15 cm. the height of the filter is 20 cm and radius of the base is 10 cm. the rate at which the height of the water decreases is	

14	The area of sector with central angle of 1 radian in a circular region whose radius is 2m is	A. $0.5m^2$ B. $2m^2$ C. $1m^2$ D. $4m^2$
15	Question Image	
16	A non-homogeneous linear system $AX = B$ has no solution if	A. $ A  = 0$ B. $ A  \neq 0$ C. Rank (a) = no of variables D. Rank $>$ no of variables
17	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
18	The set $(Q, .)$	A. Forms a group B. Does not form a group C. Contains no additive identity D. Contains no additive inverse
19	In one hour, the hour hand of a clock turns through	
20	For trival solution $ A $ is	A. A B. $ A  = 0$ C. $A = 0$ D. $ A  \neq 0$