

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The 5th term of $(3a-2b)^{-1}$ is	A. $77b^2/a^5$ B. $16b^2/243a^5$ C. $17b^4/43a^5$ D. $25b^3/43a^5$
3	Question Image	
4	Which of the following is a vector.	A. energy B. force C. work D. power
5	A relation in which the equality is true only for some values of the known is called _____	A. An identity B. An equation C. A polynomial D. None of these
6	The solution of differential equation:	A. $dy/dx+y/x = x^2$ is : B. $4xy = x^4 + c$ C. $4x = x^4 + c$ D. $4y = x^4 + c$ E. $4x=4x^3 + c$
7	For all points (x,y) in fourth quadrant	A. $x > 0, y < 0$ B. $x > 0, y > 0$ C. $x < 0, y < 0$ D. $x < 0, y > 0$
8	If a cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. parabola B. circle C. hyperbola D. ellipse
9	An expression involving any of the symbols $<, >, \leq$ or $\geq$ is called	A. equation B. inequality C. linear equation D. identity
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	Question Image	A. cosec $x + c$ B. -cosec $x + c$ C. -sec $x + c$ D. sec $x + c$
12	The root of the quadratic equation are	A. 3 B. 2 C. 1 D. 4
13	If A is an event then which of the following is true	A. $P(A) < 0$ B. $0 \geq P(A) \leq 1$ C. $P(A) > 0$ D. None
14	Question Image	
15	The fixed point from which all the points of a circle are equidistant is called the	A. chord of the circle B. centre of the circle C. diameter of the circle D. radius of the circle
16	Question Image	
17	If two balls are drawn from a bag containing 3 white, 4 black and 5 red balls. Then the	A. $1/66$ B. $3/66$

'' probability that the drawn balls are of different colours is

C. 19 / 66

D. 47 / 66

18 Question Image

19 The physical quantity which can be specified by a number alongwith unit is called a

A. scalar

B. vector

C. constant

D. none of these

20 Question Image