

## Mathematics General Science Test Medium Mode

| Sr | Questions   | Answers Choice   |
|----|---|--|
| 1  | The surface generated by lines, consists of two parts, called:  | A. vertex<br>B. apex<br>C. nappes<br>D. axis   |
| 2  | The system of measurement in which the angle is measured in degrees, minutes and seconds is called the      | A. circular system<br>B. CGS system<br>C. sexagesimal system<br>D. none of these   |
| 3  | Which of the following integrals can be evaluated   |  |
| 4  | If the trace of matrix A is 5, then the trace of the matrix 3A is   | A. 3/5<br>B. 5/3<br>C. 8<br>D. 15  |
| 5  | A quadrilateral whose diagonals are perpendicular bisector of each other is                                 | A. Square<br>B. Rectangle<br>C. Rhombus<br>D. Parallelogram<br>E. Trapezium  |
| 6  | A function whose domain is a subset of natural numbers is called _____                                      | A. Identity function<br>B. Sequence<br>C. Onto function<br>D. Series   |
| 7  | A point where two of its boundary lines intersect is called   | A. Corner point<br>B. Feasible point<br>C. Vertex<br>D. Feasible solution  |
| 8  | If $a_1$ and $r$ are the first term and the common ratio respectively then $(n + 1)$ th term of the G.P. is | A. 0<br>B. $a <sub>1</sub> r <sup>n-1</sup>$<br>C. $a <sub>1</sub> r <sup>n+1</sup>$<br>D. $a <sub>1</sub> r <sup>n</sup>$ |
| 9  | Which of the following is a scalar  | A. weight<br>B. force<br>C. speed<br>D. momentum   |
| 10 | If $\text{Proj}_v u = \text{Proj}_u v$ , then   | A. $u$ and $v$ are parallel<br>B. $ u  =  v $<br>C. $u$ and $v$ are perpendicular<br>D. One of $u$ or $v$                  |
| 11 | Sum of $n$ terms of a geometric series if $ r  < 1$ is  |  |
| 12 | How many 6-Digit number can be formed without repeating any digit from the digits 0,1,2,3,4,5               | A. 720<br>B. 600<br>C. 120<br>D. $6 \cdot 5!$  |
| 13 | The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is     | A. 1/5<br>B. 1/36<br>C. 1/7<br>D. 1/63   |
| 14 | If $A = [a_{ij}]$ is $(m \times n)$ matrix, then transpose of A is of the order                             | A. $m \times m$<br>B. $m \times n$<br>C. $n \times n$<br>D. $n \times m$   |
| 15 | Question Image  | A. 5<br>B. 15<br>C. 10<br>D. 20  |
| 16 | The transport of a null matrix is   | A. Row matrix<br>B. Column matrix<br>C. Square matrix<br>D. Null matrix  |

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| 17 | $5x^3 + 3x$ - is a _____   | A. Polynomial of degree 3<br>B. Polynomial of degree 2<br>C. Polynomial of degree 1<br>D. Polynomial of degree 0 |
| 18 | Question Image   |  |
| 19 | The middle term in the expansion of $(a + x)^{12}$ is                                  | A. 7th<br>B. 8th<br>C. 9th<br>D. 6th   |
| 20 | The number of words that can be formed out of the letters of the word ASSASSINATION is |  |