## Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | By expressing cos 113° in terms of trigonometrical ratios, answer will be | A. $-\cos 76° = -0.7093$<br>B. $-\cos 65° = -0.4258$<br>C. $-\cos 67° = -0.3907$<br>D. $-\cos 62° = -0.8520$ |
| 2 | Question Image | A. 7<br>B. 5<br>C. 6<br>D. None of these |
| 3 | $x^2 + x - 6 = 0$ is a conditional equation and it is true for | A. 2, 3<br>B. 2, -3<br>C. -2, -3<br>D. -2, 3 |
| 4 | If P is a proposition then its negative is denoted by | |
| 5 | The magnitude of vector a=i-3j+5k is: | A. 3<br>B. $\sqrt{35}$<br>C. $\sqrt{17}$<br>D. $\sqrt{35}$ |
| 6 | In how many ways can 5 persons be seated at a round table | A. 5!<br>B. 4!<br>C. 3!<br>D. 120 |
| 7 | The set { {a,b} } is | A. Infinite set<br>B. Singleton set<br>C. Two points set<br>D. Empty set |
| 8 | If a polynomial P(x) is divided by x - a, then the remainder is | A. P(o)<br>B. P(-a)<br>C. P(a)<br>D. None of these |
| 9 | Question Image | A. G.P<br>B. H.P.<br>C. A.P.<br>D. No particular sequence |
| 10 | Which of the vectors have opposite direction? | |
| 11 | The distance of the point (2,-3) from y-axis is | A. 2<br>B. -3<br>C. 1<br>D. 5 |
| 12 | Question Image | |
| 13 | Question Image | |
| 14 | The point of concurrency of the medians of the ΔABC is called its | A. Orthocenter<br>B. Centriod<br>C. Circumcentre<br>D. Incentre |
| 15 | Question Image | |
| 16 | The difference of two consecutive terms of an A.P is called the | A. Common difference<br>B. Common ratio<br>C. Geometric series<br>D. Geometric mean |
| 17 | Question Image | A. [0, 0, 0]<br>B. [1, 0, 0]<br>C. [0, 1, 0]<br>D. [0, 0, 1] |

| 18 | Question Image | |
|----|----------------|---|
| 19 | The sum of the even coefficients in the expansion $(1 + x)^n$ is | A. $n^2$<br>B. $2^{n-2}$<br>C. $2^{n-1}$<br>D. $2^n$ |
| 20 | The area bounded by $y = x(x^2 - 4)$ and below x - axis is | A. 4<br>B. 0<br>C. -4<br>D. 8 |