## Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | How many arrangements of the letters of the word MI SSI PPI, taken all together can be made? | |
| 2 | If -1 < x < 0, which of the following statements must be true? | A. $x < x^2 < x^3$<br>B. $x < x^3 < x^2$<br>C. $x^2 < x^3 < x$<br>D. $x^2 < x < x^3$ |
| 3 | The distance between the points (0 , 0) and (1, 2) is | A. 5<br>C. 0<br>D. 3 |
| 4 | Question Image | |
| 5 | Question Image | |
| 6 | Question Image | A. 2<br>B. 7<br>C. 8<br>D. 12 |
| 7 | Question Image | A. A<br>B. 0<br>C. Unit vector<br>D. None |
| 8 | Question Image | |
| 9 | Question Image | |
| 10 | The equation of the line perpendicular to x- axis and passing through (-5,3) is | A. y -3 =0<br>B. x+ 3 =0<br>C. y- 3 =∞<br>D. x +5 =0 |
| 11 | Two unbiased dice are thrown. The probability that the total score is > 5 is | A. 1 / 18<br>B. 7 / 18<br>C. 13 / 18<br>D. 11 / 18 |
| 12 | Question Image | |
| 13 | Question Image | A. a = a<br>B. a < a<br>C. a > a<br>D. $a^2 \geq a$ |
| 14 | I f the focus is F ( 0,-a) and directrix is the line v=a, then equation of the parabola is: | A. $x^2 = 4ay$<br>B. $y^2 = 4ax$<br>C. $y^2 = -4ax$<br>D. $x^2 = 4ax$ |
| 15 | Question Image | D. none of these |
| 16 | Question Image | |
| 17 | Which of the following is the subset of all sets? | |
| 18 | Question Image | |
| 19 | Question Image | A. square root function<br>B. identity function<br>C. linear function<br>D. quadratic function |
| 20 | Question Image | A. One-one but not onto<br>B. One-one and onto<br>C. Onto but not one-one<br>D. Neither one-one nor onto |