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## Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | Question Image | |
| 2 | The directrix of $y2 = -4ax$ is | A. $y = -a$<br>B. $y = a$<br>C. $x = a$<br>D. $x = -a$ |
| 3 | 9. 8. 7. 6= _____ | |
| 4 | Question Image | B. $x^{-2} + c$<br>D. not possible |
| 5 | Question Image | A. $2x$<br>B. $3x^2$<br>C. 1<br>D. 0 |
| 6 | For non-trival solution $|A|$ is | A. non zero<br>B. $A = 0$<br>C. $|A| = 0$<br>D. $At = 0$ |
| 7 | Domain of 3 sin x is _____ | A. [-3, 3]<br>B. R<br>C. Positive real numbers<br>D. None of these |
| 8 | If you are looking a bird in the tree from the ground then the angle formed is called angle of_____; | A. Elevation<br>B. Depression<br>C. Right angle<br>D. None of these |
| 9 | Two circle s1: $x2 + y2 + 2x - 2y - 7 = 0$: s2: $x2 + y2 - 6x + 4y + 9 = 0$ | A. Touch externally<br>B. Touch internally<br>C. Intersects each other<br>D. Do not intersects |
| 10 | If (0,4) and (0,2) are vertex and focus of the parabola respectively, the the equation of the parabola is: | A. $x^2 = 4y - 32$<br>B. $x^2 = 8y - 32$<br>C. $y^3 = 16 x$<br>D. $x2 + 8y = 32$ |
| 11 | A statement which is either true or false is called | A. Induction<br>B. Deduction<br>C. Propositicon<br>D. Logic |
| 12 | If $d_1$ is the distance between (0,0) and (1,2) and $d_2$ is the distance between (0,0) and (2,1) then | A. $d_1 = d_2$<br>B. $d_1 < d_2$<br>C. $d_1 > d_2$<br>D. none of these |
| 13 | Unit vector in the positive direction of x-axis is | |
| 14 | The slope of the normal at (4,3) to the circle $x^2 + y^2 = 25$ is | A. 3/4<br>B. -3/4<br>C. 4/3<br>D. -4/3 |
| 15 | The parabola $y2 = 4ax$ open up if | A. $a < 0$<br>B. $a \neq 0$<br>C. $a > 0$<br>D. All are incorrect |
| 16 | 3, 6, 12,.... is | A. A.P<br>B. G.P.<br>C. H.P.<br>D. None of these |
| 17 | Question Image | A. R<br>B. 2R<br>C. r<br>D. 2r |

| 18 | If 0 = R, thenthe additive inverse of a is | A. 1/9<br>B. 1/-9<br>C. a<br>D. -a |
| 20 | In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then Ĉ is | A. 69°<br>B. 66°<br>C. 60°<br>D. 63° |
| 20 | Question Image | |