Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A machine operates if all of its three components function. The probability that the first component fails during the year is 0.14, the second component fails is 0.10 and the third component fails is 0.05. the probability that the machine will fail during the year is	A. 0.2647 B. 0.2692 C. 0.3647 D. None of these
2	Question Image	
3	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute D. Radian
4	The equation of line passing through intersection of line x = 0 and y = 0 and the point (2,2) is	A. y = x B. y = x - 1 C. y = x + 1 D. y = x + 1
5	Question Image	A. -1 B. 0 C. 1 D. Undefined
6	Multiplying each side of an inequality by (-1) will:	A. Not effect B. Change the sign C. Become zero D. Not defined
7	Question Image	A. 5 C. -5 D. none
8	Question Image	
9	Question Image	A. range of f B. domain of f C. both (a) and (b) D. none of these
10	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
11	If f(√x)=sin x , then f'(x) =_____;	A. 2xcosx2 B. cosx2 C. cos√x D. None of these
12	Question Image	A. real number B. complex number C. rational number D. irrational number
13	Period of Sine and Cosine function is	A. π B. 2π C. -π D. -2<span style="color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-

		align: center; background-color: rgb(255, 255, 248);">π
14	If $x^3 + ax^2 - a^2x - a^3$ is divided by x + a, then the remainder is	A. 0 B. a³ C. 2a³ D. -2a³
15	Question Image	A. y/x B. x/y C. y/z D. None
16	The set of real numbers is a subset of	A. The set of natural numbers B. The set of rational numbers C. The set of integers D. The set of complex numbers
17	Question Image	A. 5 B. 25 D. 3
18	$w^{28} + w^{38} =$ _____	A. 0 B. 1 C. w D. -1
19	Question Image	A. 0 B. 1 C. 2 D. None of these
20	The angle AOP which the ray from an observer's eye at O to an object at P at a lower level makes with horizontal ray OA through O is called the	A. Angle of depression B. Angle of elevation C. Acute angle D. Obtuse angle