

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For each even natural number n (n^2-1) is divisible by	<p>A. 6</p> <p>B. 3</p> <p>C. 4</p> <p>D. 8</p>
2	Question Image <input style="width: 60%; height: 20px;" type="text"/>	
3	The conic is a parabola, when:	<p>A. $e > 1$</p> <p>B. $e < 1$</p> <p>C. $e = 1$</p> <p>D. $e = 0$</p>
4	If $f(x) = -x^2$ then $f(-2)$ is	<p>A. -2</p> <p>B. 2</p> <p>C. -4</p> <p>D. 4</p>
5	The value of x , and y , when $(x + iy)^2 = 5 + 4i$	<p>A. $X = 2, y = 1$</p> <p>B. $X = -2, y = 1$</p> <p>C. $X = 2, y = -1$</p> <p>D. $X = 2, y = 2$</p>
6	The square matrix A is skew Hermitian when $(A)^t =$	<p>A. A</p> <p>B. A'</p> <p>C. $-A$</p> <p>D. A</p>
7	$(A \cup B) \cap C =$ -----	<p>A. $A \cap B \cup C$</p> <p>B. $A \cup (B \cap C)$</p> <p>C. $A \cup (B \cap C)$</p> <p>D. None of these</p>
8	The differential equation of all st. lines which are at a constant distance to form the origin is	
9	A vector with magnitude one is called	<p>A. constant vector</p> <p>B. unit vector</p> <p>C. zero vector</p> <p>D. null vector</p>
10	$\forall a, b, c \in \mathbb{R}, a + c = b + c \Rightarrow a = b$	<p>A. Reflexive property</p> <p>B. Symmetric property</p> <p>C. Cancellations property w.r.t. addition</p> <p>D. Transitive property</p>
11	The expansion of $(1 - 3x)^{-1}$ is valid if	<p>A. $x < 1$</p> <p>B. $x < 3$</p> <p>C. $x < 1/3$</p> <p>D. None of these</p>
12	The expansion $(1 + x)^{-3}$ holds when	<p>A. $x < 1$</p> <p>B. $x < 1$</p> <p>C. $x < 1$</p> <p>D. $x > 1$</p>
13	$w^7 =$ _____	<p>A. 0</p> <p>B. 1</p> <p>C. w</p> <p>D. w^{22}</p>
14	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	<p>A. 1594</p> <p>B. 792</p> <p>C. 924</p> <p>D. 2924</p>
15	The period of the function $f(x) = \sin^4 x + \cos^4 x$ is	<p>A. A. π</p> <p>B. B. 2π</p>

15	The period of the function $f(x) = \sin x + \cos x$ is	<p>align: center; background-color: rgb(255, 255, 224);">π</p> <p>$\pi/2$</p> <p>C. 2π</p> <p>D. None of these</p>
16	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	<p>A. [0, 1]</p> <p>B. [-1, 1]</p> <p>C. [1, 3]</p> <p>D. None of these</p>
17	The line $3x - 4y = 0$	<p>A. Is a tangent to the circle $x^2 + y^2 = 25$</p> <p>B. Is a normal to the circle $x^2 + y^2 = 25$</p> <p>C. Does not meet the circle $x^2 + y^2 = 25$</p> <p>D. Does not pass thro' the origin</p>
18	Riaz, Saba, Maria, Shehzad are to give speeches in a class. The teacher can arrange the order of their presentation in	<p>A. 4 ways</p> <p>B. 12 ways</p> <p>C. 256 ways</p> <p>D. 24 ways</p>
19		<p>B. $\ln(x^2 - x + 1) + c$</p> <p>D. $\ln(2x - 1) + c$</p>
20	If $f(x) = x^2 - x$ then $f(0)$ is	<p>A. 0</p> <p>B. 1</p> <p>C. 2</p> <p>D. 3</p>