

Model Question Paper – 5

II P.U.C MATHEMATICS (35)

Time : 3 hours 15 minute

Max. Marks : 100

Instructions :

- (i) The question paper has five parts namely A, B, C, D and E. Answer all the parts.
- (ii) Use the graph sheet for the question on Linear programming in PART E.

PART – A

Answer ALL the questions

10 × 1=10

1. Give an example of a relation which is reflexive and symmetric but not transitive.
2. Find the value of $\cot(\tan^{-1} x + \cot^{-1} x)$.
3. Define a scalar matrix.
4. If $\begin{vmatrix} x & 8 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 2 & 8 \\ 8 & 2 \end{vmatrix}$, find the values of x .
5. Differentiate $\sin \sqrt{x}$ with respect to x .
6. Evaluate: $\int \frac{1-x}{\sqrt{x}} dx$.
7. Find the vector components of the vector with initial point (2,1) and terminal point (-5,7).
8. What is the equation of the plane that cuts the coordinate axes at (a,0,0), (0,b,0) and (0,0,c).
9. Define the term corner point in the L. P. P.
10. If E is an event of a sample space S of an experiment then find $P(S/F)$.

PART B

Answer any TEN questions:

10 × 2=20

11. Verify whether the operation $*$ defined on Q by $a * b = \frac{ab}{4}$ is associative or not.
12. Find the value of $\tan^{-1}(\sqrt{3}) - \sec^{-1}(-2)$.
13. Write the simplest form of $\tan^{-1}\left(\sqrt{\frac{1-\cos x}{1+\cos x}}\right)$, $0 < x < \pi$.
14. Let A(1,3), B(0,0) and C(k,0) be the vertices of triangle ABC of area 3 sq. units. Find k using determinant method.
15. Prove that greatest integer function defined by $f(x) = [x]$, $0 < x < 3$ is not differentiable at $x = 1$.
16. Find $\frac{dy}{dx}$, if $x = 4t$ and $y = \frac{4}{t}$.
17. Find the intervals in which the function f given by $f(x) = x^2 - 4x + 6$ is strictly increasing.
18. Evaluate: $\int \sin 3x \cos 4x dx$.
19. Evaluate: $\int \log x dx$.

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