

# 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:  $\int \log x dx$ .

# Mathematics 2nd Puc Model Question Paper Ncert

**Sabine Zange**



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