

Instructions : 1. The question paper has five parts namely A, B, C, D and E. Answer all the Parts.

2. Part A has 15 multiple choice questions, 5 fill in the blank questions.

3. Use the graph sheet for question on linear programming problem in Part E.

PART -A

I. Answer all the multiple choice questions : 15 x 1 = 15

1. The relation R in the set { 1,2,3 } given by { (1,2) ,(2,1) } is
 - a) reflexive
 - b) symmetric
 - c) transitive
 - d) equivalence relation
2. If $f : \mathbb{R} \rightarrow \mathbb{R}$ be defined as $f(x) = x^4$, then the function f is
 - a) one-one and onto
 - b) many-one and onto
 - c) one-one but not onto
 - d) neither one-one nor onto
3. The principal value branch of $\cot^{-1} x$ is
 - a) $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
 - b) $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$
 - c) $[0, \pi]$
 - d) $(0, \pi)$
4. The number of all possible matrices of order 3 x 3 with each entry 0 or 1 is
 - a) 27
 - b) 18
 - c) 81
 - d) 512
5. Let A be a nonsingular matrix of order 3 x 3 and $|\text{adj } A| = 25$, then a possible value of $|A|$ is
 - a) 625
 - b) 25
 - c) 5
 - d) 125
6. Which of the following x belongs to domain of the greatest integer function $f(x) = [x]$, $0 < x < 3$ is not differentiable
 - a) 2 and 3
 - b) 1 and 2
 - c) 0 and 2
 - d) 1 and 3
7. If $y = \log_7 2x$, then $\frac{dy}{dx}$ is
 - a) $\frac{1}{x \log 7}$
 - b) $\frac{1}{7 \log x}$
 - c) $\frac{\log x}{7}$
 - d) $\frac{7}{\log x}$
8. The point of inflection of the function $y = x^3$ is
 - a) (2, 8)
 - b) (1, 1)
 - c) (0, 0)
 - d) (-3, -27)
9. $\int \sin 2x \, dx$ is
 - a) $-\frac{\sin 2x}{2} + c$
 - b) $-\frac{\cos 2x}{2} + c$
 - c) $\frac{\cos 2x}{2} + c$
 - d) $\frac{\sin 2x}{2} + c$
10. $\int e^x \left(\frac{1}{x} - \frac{1}{x^2}\right) dx$ is
 - a) $e^{-x} \left(\frac{1}{x}\right) + c$
 - b) $e^{-x} \left(\frac{1}{x^2}\right) + c$
 - c) $e^x \left(\frac{1}{x}\right) + c$
 - d) $e^x \left(\frac{1}{x^2}\right) + c$

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