II P.U.C PREPARATORY EXAM JAN/FEB - 2023

Time: 3 hours 15 minute   **MATHEMATICS (35)**   Max. Marks: 100

Instructions:

1) The question paper has five parts namely A, B, C, D and E. Answer all the parts.
2) Part A has 10 Multiple choice questions, 5 Fill in the blanks and 5 Very Short Answer questions of 1 mark each.
3) Part A should be answered continuously at one or two pages of Answer sheet and Only first answer is considered for the marks in subsection I and II of Part A.
4) Use the graph sheet for question on linear programming in PART E.

PART - A

I Answer ALL the Multiple Choice Questions $10 \times 1 = 10$

1. Let R be a relation in the set N given by R={(a,b) : a-b=2, b>6}. Choose the correct answer
   (A) $(2,4) \in R$ (B) $(3,8) \in R$ (C) $(6,8) \in R$ (D) $(8,7) \in R$

2. If $\sin^{-1} x = y$, then
   (A) $0 \le y \le \pi$ (B) $-\frac{\pi}{2} \le y \le \frac{\pi}{2}$ (C) $0 < y < \pi$ (D) $-\frac{\pi}{2} < y < \frac{\pi}{2}$

3. The number of possible matrices of order 3X3 with each entry 0 or 1 is
   (A) 27   (B) 18   (C) 81   (D) 512

4. Let A be a non singular square matrix of order 3X3, then $|adj\ A|$ is equal to
   (A) $|A|$ (B) $|A|^2$ (C) $|A|^3$ (D) $3|A|$

5. The function $f(x) = [x]$, where $[x]$ denotes the greatest integer function is continuous at
   (A) 4   (B) -2   (C) 1   (D) 1.5

6. $\int \frac{\sin^2 x - \cos^2 x}{\sin^2 x \cos^2 x} dx$ is equal to
   (A) $\tan x + \cot x + C$ (B) $\tan x - \cot x + C$ (C) $\tan x \cot x + C$ (D) $\tan x - \cot 2x + C$

7. If θ is the angle between any two vectors $\vec{a}$ and $\vec{b}$, then $|\vec{a} \cdot \vec{b}| = |\vec{a} \times \vec{b}|$ when θ is equal to
   (A) 0   (B) $\frac{\pi}{2}$ (C) $\frac{\pi}{4}$ (D) π

8. A line makes equal angles with co-ordinate axes. Direction cosines of this line are
   (A) $\pm(1,1,1)$ (B) $\pm(\frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{3}})$ (C) $\pm(\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ (D) $\pm(\frac{1}{\sqrt{3}}, \frac{-1}{\sqrt{3}}, \frac{-1}{\sqrt{3}})$

9. Corner points of the feasible region determined by the system of constraints are (0,3), (1,1) and (3,0). Let $Z = px + qy$, where $p, q > 0$. Condition on p and q so that the minimum of Z occurs at (3,0) and (1,1) is
   (A) $p = 2q$ (B) $p = \frac{q}{2}$ (C) $p = 3q$ (D) $p = q$

10. If $P(A) = 0.8$, $P(B) = 0.5$ and $P(B|A)=0.4$, then $P(A \cap B)$ is equal to
    (A) 0.12   (B) 0.20   (C) 0.32   (D) 0.9

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