(ii) In any $\triangle ABC$, if a^2, b^2, c^2 are in arithmetic progression, then prove that $\cot A$, $\cot B$, $\cot C$ are in arithmetic progression. (4)

(iii) The sum of three numbers is 6. When second number is subtracted from thrice the sum of first and third number, we get number 10. Four times the sum of third number is subtracted from five times the sum of first and second number, the result is 3. Using above information, find these three numbers by matrix method. (4)

Q. 3.(A) Attempt any TWO of the following: [6]

(i) If θ is the acute angle between the lines represented by equation

$ax^2 + 2hxy + by^2 = 0$, then prove that $\tan\theta = \left| \dfrac{2\sqrt{h^2 - ab}}{a + b} \right|$, $a + b \neq 0$. (3)

(ii) If the lines $\dfrac{x-1}{2} = \dfrac{y+1}{3} = \dfrac{z-1}{4}$ and $\dfrac{x-3}{1} = \dfrac{y-k}{2} = \dfrac{z}{1}$ intersect each other, then find the value of 'k'. (3)

(iii) Construct the switching circuit for the following statement:

$[p \vee (\sim p \wedge q)] \vee [(\sim q \wedge r) \vee \sim p]$ (3)

Q. 3.(B) Attempt any TWO of the following: [8]

(i) Find the general solution of : $\cos x - \sin x = 1$ (4)

(ii) Find the equations of the planes parallel to the plane $x - 2y + 2z - 4 = 0$, which are at a unit distance from the point $(1, 2, 3)$. (4)

(iii) A diet of a sick person must contain at least 48 units of vitamin A and 64 units of vitamin B. Two foods F_1 and F_2 are available. Food F_1 costs ₹ 6 per unit and food F_2 costs ₹ 10 per unit. One unit of food F_1 contains 6 units of vitamin A and 7 units of vitamin B. One unit of food F_2 contains 8 units of vitamin A and 12 units of vitamin B. Find the minimum cost for the diet that consists of mixture of these two foods and also meeting the minimal nutritional requirements. (4)

<div align="center">

SECTION - II

</div>

Q.4. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions : [6]

(i) A random variable X has the following probability distribution:

X = x	− 2	− 1	0	1	2	3
P(x)	0.1	0.1	0.2	0.2	0.3	0.1

Then $E(x) = $ _____.

(a) 0.8   (b) 0.9   (c) 0.7   (d) 1.1 (2)

(ii) If $\int_{0}^{a} 3x^2 \, dx = 8$, then the value of a is _____.

(a) 0   (b) − 2   (c) 2   (d) ± 2 (2)

(iii) The differential equation of $y = \dfrac{c}{x} + c^2$ is _____.

(a) $x^4 \left(\dfrac{dy}{dx} \right)^2 - x \dfrac{dy}{dx} = y$ (b) $\dfrac{d^2 y}{dx^2} + x \dfrac{dy}{dx} + y = 0$

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