

- (ii) In any ΔABC , 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 $\tan \theta = \left| \frac{2\sqrt{h^2 - ab}}{a + b} \right|$, $a + b \neq 0$. (3)
- (ii) If the lines $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$ and $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$ intersect each other, then find the value of 'k'. (3)
- (iii) Construct the switching circuit for the following statement:
 $[p \vee (\neg p \wedge q)] \vee [(\neg q \wedge r) \vee \neg p]$ (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)

SECTION - II

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 $y = \frac{c}{x} + c^2$ is _____.

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

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1. Understanding the eBook Hsc Maths Mcqs Feb March 2015
 - The Rise of Digital Reading Hsc Maths Mcqs Feb March 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Maths Mcqs Feb March 2015
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Maths Mcqs Feb March 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Maths Mcqs Feb March 2015
 - Personalized Recommendations
 - Hsc Maths Mcqs Feb March 2015 User Reviews and Ratings
 - Hsc Maths Mcqs Feb March 2015 and Bestseller Lists
5. Accessing Hsc Maths Mcqs Feb March 2015 Free and Paid eBooks
 - Hsc Maths Mcqs Feb March 2015 Public Domain eBooks
 - Hsc Maths Mcqs Feb March 2015 eBook Subscription Services
 - Hsc Maths Mcqs Feb March 2015 Budget-Friendly Options

6. Navigating Hsc Maths Mcqs Feb March 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Maths Mcqs Feb March 2015 Compatibility with Devices
 - Hsc Maths Mcqs Feb March 2015 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Maths Mcqs Feb March 2015
 - Highlighting and Note-Taking Hsc Maths Mcqs Feb March 2015
 - Interactive Elements Hsc Maths Mcqs Feb March 2015
8. Staying Engaged with Hsc Maths Mcqs Feb March 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Maths Mcqs Feb March 2015
9. Balancing eBooks and Physical Books Hsc Maths Mcqs Feb March 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Maths Mcqs Feb March 2015
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Maths Mcqs Feb March 2015
 - Setting Reading Goals Hsc Maths Mcqs Feb March 2015
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Maths Mcqs Feb March 2015
 - Fact-Checking eBook Content of Hsc Maths Mcqs Feb March 2015
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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