

ALGEBRA (Set A)

Time : 2.30 Hrs.) Question Paper : September 2009 (Max. Marks : 60)

Note : Please see to Question Paper March 2009.

Q. 1 : Attempt any six of the following sub-questions.

(12)

(i) Solve the following linear equation in one variable : $4(m + 3) = 16$.

(ii) Find the HCF of $27x^2$, $36x$.

(iii) Simplify : $\frac{4x^2 - 9y^2}{(2x + 3y)(4x - 9y)}$

(iv) Sachin invested Rs. 700 in shares of face value Rs. 10 each at the market price of Rs. 10 each. Company declares a dividend of 15%. Find his dividend.

(v) Find the 7th term of the A. P. 6, 10, 14,

(vi) Write the following equation in the form $ax^2 + bx + c = 0$: $t^2 - 3t = 4 - 2t$.

(vii) Convert the binary integer to its decimal equivalent : 1100_2 .

(viii) In a bag, there are fifty cards bearing the numbers from 1 to 50. One card is drawn at random. Write down the sample space S and number of sample points.

Q. 2 : Attempt any four of the following sub-question.

(12)

(i) Solve the following equations by Cramer's Rule :

$$2x + 3y = 8, 3x + 2y - 7 = 0.$$

(ii) A TV set is bought for Rs. 17,500 and sold for Rs. 19,700 by a dealer. The rate of M-VAT is 12.5%. Find VAT to be paid by the dealer with subtraction method.

(iii) Find the sum of all natural numbers between 50 and 250 which are exactly divisible by 3.

(iv) Convert the decimal integer to its binary equivalent by using division-remainder technique : 139.

(v) Marks obtained by a student in an examination are given below.

Draw pie diagram representing this information :

Subject	Marathi	English	Science	Mathematics
Marks	85	85	90	100

(vi) Find the LCM of the following polynomials : $a^2 - 3a + 2$; $2a^2 - 5a + 2$.

Q. 3 : Attempt any four of the following sub-questions :

(12)

(i) A TV set can be purchased for Rs. 7000 cash or for Rs. 3600 cash down payment together with Rs. 3570 to be paid after four months in one instalment. Find the rate of interest.

(ii) If $(y - b)$ is the GCD of $(y^2 - y - 6)$ and $(y^2 + 3y - 18)$, then find the value of b.

(iii) Solve the following quadratic equation by the formula method. $6p^2 - 7p - 1 = 0$.

(iv) Simplify the following. $1111_2 + 1001_2 + 1101_2 + 10111_2$.

(v) There are 15 tickets bearing the numbers from 1 to 15 in a bag and one ticket is drawn at random from the bag. Find the probability of the event that the ticket drawn,

(a) bears an even number.

(b) bears a number which is a multiple of 5.

(vi) Sukhdev purchased ten plywood doors. The sale price of one piece is Rs. 1125 and the rate of central sales tax is 4%. Find the net selling price of 10 pieces.

Q. 4 : Attempt any three of the following sub-questions :

(12)

(i) Simplify the following. $\frac{2m^2 + 7m - 4}{3m^2 - 13m + 4} + \frac{4m^2 - 1}{6m^2 + m - 1}$

Algebra For Ssc English Medium

G Thomas



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Table of Contents Algebra For Ssc English Medium

1. Understanding the eBook Algebra For Ssc English Medium
 - The Rise of Digital Reading Algebra For Ssc English Medium
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra For Ssc English Medium
 - 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 Algebra For Ssc English Medium
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra For Ssc English Medium
 - Personalized Recommendations
 - Algebra For Ssc English Medium User Reviews and Ratings
 - Algebra For Ssc English Medium and Bestseller Lists

5. Accessing Algebra For Ssc English Medium Free and Paid eBooks
 - Algebra For Ssc English Medium Public Domain eBooks
 - Algebra For Ssc English Medium eBook Subscription Services
 - Algebra For Ssc English Medium Budget-Friendly Options
6. Navigating Algebra For Ssc English Medium eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra For Ssc English Medium Compatibility with Devices
 - Algebra For Ssc English Medium Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra For Ssc English Medium
 - Highlighting and Note-Taking Algebra For Ssc English Medium
 - Interactive Elements Algebra For Ssc English Medium
8. Staying Engaged with Algebra For Ssc English Medium
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra For Ssc English Medium
9. Balancing eBooks and Physical Books Algebra For Ssc English Medium
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra For Ssc English Medium
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra For Ssc English Medium
 - Setting Reading Goals Algebra For Ssc English Medium
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra For Ssc English Medium
 - Fact-Checking eBook Content of Algebra For Ssc English Medium
 - 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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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$ now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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