



MATHEMATICS SSC-II 2019
Science Group

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE: Attempt any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 24)

(9 x 4 = 36)

Q. 2 Attempt any NINE parts. All parts carry equal marks.

- (i) Solve the following equation by completing square: $lx^2 + mx + n = 0$, $l \neq 0$.
- (ii) Show that the equation $x^2 + (mx + c)^2 = a^2$ has equal roots, if $c^2 = a^2(1 + m^2)$.
- (iii) Find "m", if sum and product of the roots of the equation $5x^2 + (7 - 2m)x + 3 = 0$ is equal to a given number "λ".
- (iv) Use synthetic division to find the values of "l" and "m", if $(x - 1)$ and $(x + 1)$ are the factors of the polynomial $x^3 - 3lx^2 + 2mx + 6$.
- (v) The sum of five times a number and the square of the number is 204. Find the number.
- (vi) Find "p" in the following continued proportion 12, $3p - 6$, 27.
- (vii) Using componendo-dividendo theorem, solve the equation $\frac{(x+3)^2 - (x-5)^2}{(x+3)^2 + (x-5)^2} = \frac{4}{5}$.
- (viii) The surface area "A" of a cube varies directly as the square of the length "l" of an edge and $A = 27$ square units when $l = 3$ units. Find "A" when $l = 4$ units.
- (ix) Resolve $\frac{7x+4}{(3x+2)(x+1)^2}$ into partial fractions.
- (x) If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, $A = \{1, 3, 5, 7, 9\}$, $B = \{2, 3, 5, 7\}$ then show that $(A \cap B) = A \cap B$.
- (xi) If $L = \{x | x \in N \wedge x \leq 5\}$, $M = \{y | y \in P \wedge y < 10\}$ then make the following relation from "L" to "M".
 $R = \{(x, y) | y < x\}$. Also write the domain and range of "R".
- (xii) The sugar contents for a random sample of 6 packs of juices of a certain brand are found to be 2.3, 2.7, 2.5, 2.9, 3.1 and 1.9 milligram. Find the median.
- (xiii) In a circle of radius 10 m, find the length of an arc intercepted by a central angle of 60° .
- (xiv) Verify the identity $\frac{\sin \theta + \cos \theta}{\tan^2 \theta - 1} = \frac{\cos 2\theta}{\sin \theta - \cos \theta}$.

SECTION – C (Marks 24)

Note: Attempt any THREE questions. All questions carry equal marks.

(3 x 8 = 24)

- Q.3** Prove that in any triangle, the sum of the squares on any two sides is equal to twice the square on half the third side together with twice the square on the median which bisects the third side.
- Q.4** Prove that the tangent to a circle and the radial segment joining the point of contact and the centre are perpendicular to each other.
- Q.5** Prove that the measure of a central angle of a minor arc of a circle, is double that of the angle subtended by the corresponding major arc.
- Q.6** Circumscribe a circle about an equilateral triangle ABC with each side of length 4 cm.
- Q.7** An observation balloon is 4280m above the ground and 9613 m away from a farmhouse. Find the angle of depression of the farmhouse as observed from the observation balloon.

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Table of Contents Maths Past Papers Grade English Medium

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

5. Accessing Maths Past Papers Grade English Medium Free and Paid eBooks
 - Maths Past Papers Grade English Medium Public Domain eBooks
 - Maths Past Papers Grade English Medium eBook Subscription Services
 - Maths Past Papers Grade English Medium Budget-Friendly Options
6. Navigating Maths Past Papers Grade English Medium eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Past Papers Grade English Medium Compatibility with Devices
 - Maths Past Papers Grade English Medium Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Past Papers Grade English Medium
 - Highlighting and Note-Taking Maths Past Papers Grade English Medium
 - Interactive Elements Maths Past Papers Grade English Medium
8. Staying Engaged with Maths Past Papers Grade English Medium
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Past Papers Grade English Medium
9. Balancing eBooks and Physical Books Maths Past Papers Grade English Medium
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Past Papers Grade English Medium
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Past Papers Grade English Medium
 - Setting Reading Goals Maths Past Papers Grade English Medium
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Past Papers Grade English Medium
 - Fact-Checking eBook Content of Maths Past Papers Grade 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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