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 36)

Q. 2   Attempt any NINE parts. All parts carry equal marks.   (9 x 4 = 36)

(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 $\dfrac{(x+3)^2 - (x-5)^2}{(x+3)^2 + (x-5)^2} = \dfrac{4}{5}$.

(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 $\dfrac{7x + 4}{(3x + 2)(x + 1)^2}$ 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 $(A \cup B)' = A' \cap B'$

(xi)   If $L = \{x \mid x \in N \wedge x \leq 5\}$, $M = \{y \mid y \in P \wedge y < 10\}$ then make the following relation from "L" to "M". $R = \{(x, y) \mid y < x\}$. 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, 2.6, 2.6, 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 $\dfrac{\sin \theta + \cos \theta}{\tan^2 \theta - 1} = \dfrac{\cos 2\theta}{\sin \theta - \cos \theta}$.

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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Maths Past Papers Grade 10 English Medium:

The book delves into Maths Past Papers Grade 10 English Medium. Maths Past Papers Grade 10 English Medium is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maths Past Papers Grade 10 English Medium, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Maths Past Papers Grade 10 English Medium
    - Chapter 2: Essential Elements of Maths Past Papers Grade 10 English Medium
    - Chapter 3: Maths Past Papers Grade 10 English Medium in Everyday Life
    - Chapter 4: Maths Past Papers Grade 10 English Medium in Specific Contexts
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