Mathematics (Science Group) (Subjective)   (For All Sessions)

ریاضی (سائنس گروپ) انشائیہ

Time: 2:10 hours   (GROUP-I)   Marks : 60

SECTION-I

2.   **Write short answers of any six parts from the following:**   **(2x6=12)**

سوال نمبر ۲: درج ذیل میں سے کوئی سے چھ اجزاء کے مختصر جوابات تحریر کریں:

i.   Define quadratic equation:

دوورجی مساوات کی تعریف کیجے: ۔i

ii.   Solve: $x^2 + 2x - 2 = 0$

حل کیجے: ۔ii

iii.   Write in standard form: $(x + 7)(x - 3) = -7$

مساوات کو معیاری شکل میں لکھیے: ۔iii

iv.   Find the nature of the roots of the equation $3x^2 + 7x - 13 = 0$

درج ذیل مساوات کے روٹس کی اقسام معلوم کیجے: ۔iv

v.   Evaluate: $w^{-13} + w^{-17}$

حل کیجے: ۔v

vi.   Without solving, find the sum and product of the roots of the equation: $px^2 - qx + r = 0$

درج ذیل مساوات کو حل کیے بغیر اس کے جذروں کے مجموعہ اور حاصل ضرب معلوم کیجے: ۔vi

vii.   Define proportion:

تناسب کی تعریف کیجے: ۔vii

viii.   If $R \propto T^2$ and $R = 8$ when $T = 3$, find R when $T = 6$:

اگر $R \propto T^2$ اور $R = 8$ جب $T = 3$ ہو تو R معلوم کیجے جب $T = 6$: ۔viii

ix.   Find a third proportion to 6, 12:

6, 12 تیسرا تناسب معلوم کیجے: ۔ix

3.   **Write short answers of any six parts from the following:**   **(2x6=12)**

سوال نمبر ۳: درج ذیل میں سے کوئی سے چھ اجزاء کے مختصر جوابات تحریر کریں:

i.   What are partial fractions?

جزوی کسور کیا ہیں؟ ۔i

ii.   Convert into proper fractions: $\dfrac{x^3 - x^2 + x + 1}{x^2 + 5}$

واجب کسر میں تبدیل کیجے: ۔ii

iii.   Define one-one function:

ایک – ایک تفاعل کی تعریف کیجے: ۔iii

iv.   If: $x = \{2, 4, 6, \dots, 20\}$
          $y = \{4, 8, 12, \dots, 24\}$

      Then find $y - x$

اگر تو $x - y$ معلوم کیجے: ۔iv

v.   If: $A = \{2, 3, 5, 7\}$
          $B = \{3, 5, 8\}$

      Then find $A \cup B$

اگر: تو $A \cup B$ معلوم کیجے: ۔v

vi.   Find a and b, if: $(a - 4, b - 2) = (2, 1)$

a اور b معلوم کیجے اگر: ۔vi

vii.   Define geometric mean:

اقلیدسی اوسط کی تعریف کیجے: ۔vii

viii.   Find mode: 4, 4, 5, 5, 6, 6, 6, 7, 7.5, 7. 5, 8, 8, 8, 6, 5, 6.5, 7

مادہ معلوم کیجے: ۔viii

ix.   Find arithmetic mean of the data: 45, 60, 74, 58, 65, 63, 49

مواد کا حسابی اوسط معلوم کیجے: ۔ix

4.   **Write short answers of any six parts from the following:**   **(2x6=12)**

سوال نمبر ۴: درج ذیل میں سے کوئی سے چھ اجزاء کے مختصر جوابات تحریر کریں:

i.   Define radian measure of an angle.

زاویہ کی ریڈین میں تعریف کیجے۔ ۔i

ii.   Convert $\dfrac{2\pi}{3}$ into degree.

$\dfrac{2\pi}{3}$ کو ڈگری میں تبدیل کیجے۔ ۔ii

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Table of Contents Math N2question Papers

1. Understanding the eBook Math N2question Papers
    - The Rise of Digital Reading Math N2question Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Math N2question Papers
    - 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 Math N2question Papers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Math N2question Papers
    - Personalized Recommendations
    - Math N2question Papers User Reviews and Ratings
    - Math N2question Papers and Bestseller Lists

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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