

پہچان: 1 (انتہائی)
کل نمبر: 60

ریاضی
وقت: 2.10 گھنٹے

﴿پہلا گروپ﴾

نوٹ: حصہ اول لازمی ہے۔ حصہ دوم میں سے کوئی سے تین (3) سوالوں کے جوابات لکھئے۔

(حصہ اول)

(6 x 2 = 12)

2- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:

- i- مساوی سیٹ کی تعریف کیجئے۔
- ii- ششائی ربط کی تعریف کیجئے۔
- iii- x کی قیمت معلوم کیجئے جبکہ $(x - 1, y + 2) = (2x + 4, -4)$
- iv- متکاشن سے کیا مراد ہے؟
- v- $(\sqrt{2} + \sqrt{7})$ کا مختصر کیجئے۔
- vi- کیا سیٹ $\{0, -1\}$ خاصیت بندش بلحاظ جمع اور ضرب رکھتا ہے؟
- vii- 0.224 کو سائنسی ترتیب میں لکھئے۔
- viii- خاصہ کی تعریف کیجئے اور مثال دیجئے۔
- ix- اگر $\log_x 81 = 2$ ہو تو x کی قیمت معلوم کیجئے۔

(6 x 2 = 12)

3- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:

- i- $y^2 + \frac{1}{4}$ کو مکمل مربع بنانے کیلئے کیا جمع یا تفریق کیا جائے؟
- ii- $x^2 + y^2$ کی قیمت معلوم کیجئے جبکہ $x - y = 8, xy = -15$
- iii- ترتیب صعودی سے کیا مراد ہے؟
- iv- تجزی سے کیا مراد ہے؟
- v- $1 - x^6$ کی تجزی کیجئے۔
- vi- $\frac{1}{x^2y^4} + x^2y^4 - 2$ کا جذر الرقع معلوم کیجئے۔
- vii- $x^2 - 16, x^3 + 64$ کا عاوا عظم معلوم کیجئے۔
- viii- x^2, xy, x^2y^2 کا ذواضعا ق اقل معلوم کیجئے۔
- ix- $\frac{a+b}{a^2+ab+b^2} + \frac{1}{a-b} - \frac{ab}{a^3-b^3}$ کو مختصر کیجئے۔

(6 x 2 = 12)

4- کوئی سے چھ سوالات کے مختصر جوابات تحریر کیجئے:

- i- وتری قائب کی تعریف کیجئے۔
- ii- x کی قیمت معلوم کیجئے جبکہ $x + \begin{bmatrix} 3 \\ 4 \end{bmatrix} = \begin{bmatrix} -4 \\ 3 \end{bmatrix}$
- iii- $\begin{bmatrix} 1 & 5 \\ 3 & p \end{bmatrix} \begin{bmatrix} q \\ 7 \end{bmatrix} = \begin{bmatrix} 35 \\ 10 \end{bmatrix}$ سے p اور q کی قیمتیں معلوم کیجئے۔
- iv- شعاع کی تعریف کیجئے۔
- v- مربع اور متین کا فرق شکل بنا کر واضح کیجئے۔
- vi- متناظرہ زاویوں کی تعریف کیجئے۔
- vii- شلٹ بنائے جس کے اضلاع کی لمبائیاں 3.5 سم، 4.1 سم اور 4.4 سم ہوں۔
- viii- عمودی تا صاف کی تعریف کیجئے۔
- ix- شلٹ کے ارتفاع کی تعریف کیجئے۔

(حصہ دوم)

(ہر سوال کے 8 نمبر ہیں اور ہر جزو کے 4 نمبر ہیں)

5- اگر $A = \{a, b, c\}, B = \{b, d, f\}, C = \{a, f, e\}$ تو ثابت کیجئے کہ
 $(A \cap B) \cup (A \cap C) = A \cap (B \cup C)$

ب) $x^2 + \frac{1}{x^2}$ کی قیمت معلوم کیجئے اگر $x = \sqrt{2} - 1$

6- لوگار تھم کی عدد سے $\frac{(8.97)^2 \times (1.059)^3}{57.7}$ کی قیمت معلوم کیجئے۔

ب) $x^2 + \frac{1}{x^2} = 2$ کی قیمت معلوم کیجئے جبکہ $x + \frac{1}{x}$

7- $64a^2 - 343b^3 - 4a + 7b$ کی تجزی کیجئے۔

ب) $4x^3 - 3x^2 - 24x - 9$ کا عاوا عظم پذیر ہے تو نیم معلوم کیجئے۔

8- قائبوں کی عدد سے کل سیٹ معلوم کیجئے۔

$2x - 5y = 1$; $3x + 4y = 36$

ب) ABC شلٹ کے اضلاع کے عمودی t صاف کیجئے جس میں

$m\bar{AC} = 4.8 \text{ cm}, m\bar{AB} = 6.5 \text{ cm}, m\angle A = 105^\circ$

9- ثابت کیجئے کہ اگر کسی شلٹ کے دو اضلاع باہم متماثل ہوں تو ان اضلاع کے مخالف زاویے بھی متماثل ہوتے ہیں۔

Matric Maths Paper 2012

Ensheng Dong



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