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﴿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:

- مسامی سیٹ کی تعریف کیجئے۔
- مثالی ربط کی تعریف کیجئے۔
- $x$  کی قیمت معلوم کیجئے جبکہ  $(x - 1, y + 2) = (2x + 4, -4)$
- عکسش سے کیا مراد ہے؟
- $(\sqrt{2} + \sqrt{7})$  کا مختصر کیجئے۔
- کیا سیٹ  $\{0, -1\}$  خاصیت بندش بلحاظ جمع اور ضرب رکھتا ہے؟
- $0.224$  کو سائنسی ترتیب میں لکھئے۔
- خاصیت کی تعریف کیجئے اور مثال دیجئے۔
- 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:

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

(6 x 2 = 12)

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

- وتری قائب کی تعریف کیجئے۔
- $x$  کی قیمت معلوم کیجئے جبکہ  $x + \begin{bmatrix} 3 \\ 4 \end{bmatrix} = \begin{bmatrix} -4 \\ 3 \end{bmatrix}$
- $\begin{bmatrix} 1 & 5 \\ 3 & p \end{bmatrix} \begin{bmatrix} q \\ 7 \end{bmatrix} = \begin{bmatrix} 35 \\ 10 \end{bmatrix}$  سے  $p$  اور  $q$  کی قیمتیں معلوم کیجئے۔
- تعارف کی تعریف کیجئے۔
- مربع اور متین کا فرق شکل بنا کر واضح کیجئے۔
- متناظرہ زاویوں کی تعریف کیجئے۔
- شلت بنا یئے جس کے اضلاع کی لمبائیاں 3.5 سم، 4.1 سم اور 4.4 سم ہوں۔
- عمودی تا صفت کی تعریف کیجئے۔
- شلت 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  
 $(A \cap B) \cup (A \cap C) = A \cap (B \cup C)$

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

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

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

9-  $64a^2 - 343b^3 - 4a + 7b$  کی تجزی کیجئے۔

10-  $4x^3 - 3x^2 - 24x - 9$  کا عاوا عظم پذیر یئے تقسیم معلوم کیجئے۔

11- قائبوں کی عدد سے حل سیٹ معلوم کیجئے۔  
 $2x - 5y = 1$  ;  $3x + 4y = 36$

12-  $ABC$  شلت کے اضلاع کے عمودی  $t$  صفت کیجئے جس میں  
 $m\bar{AC} = 4.8 \text{ cm}, m\bar{AB} = 6.5 \text{ cm}, m\angle A = 105^\circ$

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

# Matric Maths Paper 1 2012

**Iseb Iseb**



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