

**MATHEMATICS (SCIENCE)**

ریاضی (سائنس)

Paper : II (Essay Type)

024-1<sup>st</sup> Annual-(10<sup>th</sup> Class)

پرچہ : II (انشائیہ طرز)

Time Allowed : 2.10 hours

(دو سرائگپ)

وقت : 2.10 گھنٹے

Maximum Marks : 60

CHR-2-24

کل نمبر : 60

(PART-I اول حصہ)

12 2. Write short answers to any SIX (6) questions :

(i) Define radical equation.

(ii) Solve by factorization :

(iii) Write in standard form :

(iv) Find the discriminant of :

(v) Evaluate :

(vi) Write the quadratic equation having following roots :

(vii) Define direct variation.

(viii) If  $w \propto \frac{1}{z}$  and  $w = 5$  when  $z = 7$  find  $k$

(ix) Find a mean proportional between 20, 45

12 3. Write short answers to any SIX (6) questions :

(i) Define improper fraction.

(ii) If  $\frac{x}{(x+a)(x-a)} = \frac{A}{x+a} + \frac{B}{x-a}$ , find A and B

(iii) If  $A = N$  and  $B = W$ , find  $A - B$

(iv) If  $X = \{a, b, c\}$  and  $Y = \{d, e\}$ , find  $X \cap Y$  and  $X \cup Y$

(v) If  $L = \{a, b, c\}$  and  $M = \{3, 4\}$ , then find a binary relation of  $M \times L$

(vi) Define subset and give an example.

(vii) Define range.

(viii) Write two properties of arithmetic mean.

(ix) Find harmonic mean of data : 12, 5, 8, 4

12 4. Write short answers to any SIX (6) questions :

(i) Define an angle.

(ii) Convert  $\frac{\pi}{4}$  radian into degree.

(iii) Find  $^{\circ}\theta^{\circ}$ , when  $\ell = 2.5m$ ,  $r = 4.5m$ .

(iv) Simplify each expression to a single trigonometric function  $\sin^2 x \cdot \cot^2 x$

(ورق الٹئے)

2. کوئی سے چھ (6) سوالات کے مختصر جوابات لکھئے :

(i) جذری مساوات کی تعریف کیجئے۔

(ii) بذریعہ تجزیہ حل کیجئے :

(iii) مساوات کو معیاری شکل میں لکھئے :

(iv) فرق کنندہ معلوم کیجئے :

(v) قیمت معلوم کیجئے :

(vi) درج ذیل دوئس والی دو درجی مساوات لکھئے :

(vii) عکس راست کی تعریف کیجئے۔

(viii) اگر  $w \propto \frac{1}{z}$  اور  $w = 5$  جب  $z = 7$  ہو تو  $k$  کی قیمت معلوم کیجئے۔

(ix) وسطی تناسب معلوم کیجئے :

3. کوئی سے چھ (6) سوالات کے مختصر جوابات لکھئے :

(i) غیر واجب کسر کی تعریف کیجئے۔

(ii) اگر  $\frac{x}{(x+a)(x-a)} = \frac{A}{x+a} + \frac{B}{x-a}$  تو A اور B کی قیمتیں معلوم کیجئے۔

(iii) اگر  $A = N$  اور  $B = W$  تو  $A - B$  معلوم کیجئے۔

(iv) اگر  $X = \{a, b, c\}$  اور  $Y = \{d, e\}$  تو  $X \cap Y$  اور  $X \cup Y$  معلوم کیجئے۔

(v) اگر  $L = \{a, b, c\}$  اور  $M = \{3, 4\}$  تو  $M \times L$  کا ایک ثنائی ربط معلوم کیجئے۔

(vi) حقیقی سوئٹ کی تعریف کیجئے اور ایک مثال دیجئے۔

(vii) سمت کی تعریف کیجئے۔

(viii) حسابی اوسط کی دو خصوصیات لکھئے۔

(ix) مواد کا نام آجکے اوسط معلوم کیجئے :

4. کوئی سے چھ (6) سوالات کے مختصر جوابات لکھئے :

(i) زاویہ کی تعریف کیجئے۔

(ii)  $\frac{\pi}{4}$  rad کو ڈگری میں تبدیل کیجئے۔

(iii)  $^{\circ}\theta^{\circ}$  معلوم کیجئے جبکہ  $r = 4.5m$  اور  $\ell = 2.5m$ ۔

(iv) جملہ کو مختصر کر کے ایک ٹرگونیومیٹریقی تفاعل میں لکھئے :  $\sin^2 x \cdot \cot^2 x$

# Mathematics For Class 10 Punjab Board Lahore

**D Kirk**



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