## MATHEMATICS

(D) cot 30°

(D) 90°

0

1

Time: 30 minutes

(v)

(vi)

(x)

(xi)

(xii)

Max. Marks: 20

## SECTION 'A' MULTIPLE CHOICE QUESTION

- Choose the correct answer for each from 1. the given options: (20)
- In a right angled triangle side opposite ti < 90° is called: (i) (A) Hypotenuse (B) Base
  - (C) Perpendicular (D) None of these The range of 42, 55, 50, 53, 60, 35, 40 is:
- (ii) (A) 50 (B) 27 (C) 40 (D) none of them The point through which medians of triangle pass is (iii)
- (A) Orthocenter (B) Centroid called: (C) Circumcenter (D) In centre (iv) Solution Set of  $\sqrt{2x+3}$  is:
  - (A)  $\frac{1}{2}\sqrt{(B)}$  (B)  $-\frac{1}{2}$  (C) { } (D) -1
    - If  $\frac{a}{b} = \frac{c}{d}$ , the  $\frac{a+b}{b} = \frac{c+d}{d}$  is the property of:
      - (A) <u>Componendo</u> (B) Dividendo (C) Alternando (D) Invertendo (D) Invertendo Sin 30° = -----
- (A) Sin 60° (B) cos 60° (C) tan 30° An angle inscribed in a semi circle is of: (vii) (A) 180° (B) 360° (C) 0°
- (viii)  $(\sqrt{2}+1)(\sqrt{2}-1)$  (A) 2 (B) 0 (C) 1 (D)  $\sqrt{2}$ 
  - (A) {1} (B) {1,2} (C) {1,2,3} (D) {2,3 If  $log_{10} 1000 = y$ , the value of y will be:
  - (A) 10 (B) 3 (C) 5 (D) Median of 1, 3, 8, 11, 15, 18, 19 is:
  - (A) 11 (B) 15 (C) 13 (D) None of these A ∆ B = ..... (A) A U B (B) A ∩ B (C) (A ∩ B) - (A U B) (D) (A U B) - (A ∩ B)
- Multiplicative inverse of a b is: (xiii)
  - (A) a+b (B) -a+b
  - (D)
- a + b $(xiv) (A')' = (A) \underline{A}$ (B) A' (C) Φ (D) U  $(xv) 4 x 5^{\circ} = (A) 4$ (B) 5 (C) 0 (D) 20
  - علم سے انکسار اور دولت سے غرور پیدا ہوتا ہے 54
- (xvi)
- (C)  $3\log a^x \log a^y + 2\log a^z$  (D)  $3\log a^x 2\log a^z$ loga

(A)  $\log a^{x^3} + \log a^y - \log a^{z^2}$  (B)  $3 \log a^x + \log a^y - 2 \log a^z$ 

- If a + b = 2 and a b = 2 then the value of  $a^2 + b^2$  is: (A) -1 (B) 2 (C) 4 (D)
- (xviii) The H.C.F of  $x^4 y^4$  and  $x^2 + b^2$  is:
- (A)  $x^4 y^4$  (B)  $\frac{x^2 + y^2}{x^2 y^2}$  (C)  $(x^2 + y^2)(x^2 y^2)$  (D)  $\frac{x^2 y^2}{x^2 y^2}$ (xix) Scalar Matrix is:
  - (B)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ (D)  $\begin{bmatrix} 0 & 1 \\ 1 & 1 \end{bmatrix}$
- $tan \varphi = (A) cos \Phi (B) sec \Phi (C) cot \Phi (D) cosec \Phi$ (xx) sinφ