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### MATH CBSE II SOLVED PAPAERS 2024: DELHI &

**OUTSIDE** by Gwen Hayes

★★★★★ 4.6 out of 5

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Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 124 pages  
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# MATHEMATICS (STANDARD)

## Outside Delhi (Set-1)

2020

Time Allowed: 3 hours Mark: 90

### SECTION - A

Q.1. Answer the following multiple choice questions of 4 marks each. Select the correct option.

1. The sum of exponents of prime factors in the prime factorisation of 196 is

- (A) 3 (B) 4 (C) 5 (D) 2

Sol. Prime factors of 196 are  $2^2 \times 7^2$

$\therefore$  sum of exponents =  $2 + 2 = 4$

$\therefore$  Option (B) is correct. Ans.

2. Euclid's division Lemma states that for two positive integers  $a$  and  $b$ , there exists unique integers  $q$  and  $r$  such that  $a = bq + r$ , and

- (A)  $0 < r < b$  (B)  $0 \leq r < b$   
 (C)  $0 < r \leq b$  (D)  $0 \leq r \leq b$

3. The zeroes of the polynomial  $x^2 - 2x - 15$  are

- (A)  $5, -3$  (B)  $-5, 3$   
 (C)  $3, -5$  (D)  $-3, 5$

Sol.  $x^2 - 2x - 15 = 0$

$$(x - 5)(x + 3) = 0$$

$$\Rightarrow x^2 - 5x + 3x - 15 = 0$$

$$\Rightarrow x^2 - 2x - 15 = 0$$

$$\Rightarrow x(x - 5) + 3(x - 5) = 0$$

$$\Rightarrow (x - 5)(x + 3) = 0$$

$$\Rightarrow x - 5 = 0 \text{ or } x + 3 = 0$$

$$\Rightarrow x = 5 \text{ or } x = -3$$

$$\therefore \text{Option (C) is correct. Ans.}$$

4. The value of  $k$  for which the system of linear equations  $kx + 2y = 5$ ,  $3x + ky = 7$  is inconsistent is

- (A)  $-\frac{11}{3}$  (B)  $\frac{2}{3}$   
 (C) 7 (D) 10

Sol. For the system of linear equations to be inconsistent, we have

$$\frac{k}{3} = \frac{2}{k} \neq \frac{5}{7}$$

$$\Rightarrow k^2 = 6 \neq \frac{10}{7}$$

$$\Rightarrow k = \pm\sqrt{6} \neq \frac{10}{7}$$

$$\therefore \text{Option (B) is correct. Ans.}$$

5. The roots of the quadratic equation  $x^2 - 0.04 = 0$  are

- (A)  $2, 0.02$  (B)  $2, 0.02$   
 (C)  $2, 0.02$  (D)  $2$

Sol. Given  $x^2 - 0.04 = 0$

$$\Rightarrow x^2 - (0.2)^2 = 0$$

$$\Rightarrow x - 0.2 = 0 \text{ or } x + 0.2 = 0$$

$$\Rightarrow x = 0.2 \text{ or } x = -0.2$$

$$\therefore \text{Option (D) is correct. Ans.}$$

6. The common difference of the A.P.  $\frac{1}{p}, \frac{1}{q}, \frac{1}{r}, \dots$

- (A)  $\frac{2p}{p^2} - \frac{1}{p}$  (B)  $\frac{1}{p} - \frac{1}{q}$  (C)  $\frac{1}{p} - \frac{1}{r}$  (D)  $\frac{1}{p} - \frac{1}{q}$

Sol. We know

$$\text{Common Difference} = a_2 - a_1$$

$$= \frac{1}{q} - \frac{1}{p}$$

$$= \frac{p - q}{pq}$$

$$= \frac{1}{p} - \frac{1}{q}$$

$$\therefore \text{Option (D) is correct. Ans.}$$

7. The  $n^{\text{th}}$  term of the A.P.  $4, 3, 2, 1, \dots$  is

- (A)  $4n$  (B)  $5n - 1$  (C)  $4n - 3$  (D)  $5n$

Sol. In the A.P.  $a = 4$  and  $d = -1$

$$\therefore \text{Option (C) is correct. Ans.}$$

8. The  $n^{\text{th}}$  term of the A.P.  $4, 3, 2, 1, \dots$  is

- (A)  $4n$  (B)  $5n - 1$  (C)  $4n - 3$  (D)  $5n$

Sol. In the A.P.  $a = 4$  and  $d = -1$

$$\therefore \text{Option (C) is correct. Ans.}$$



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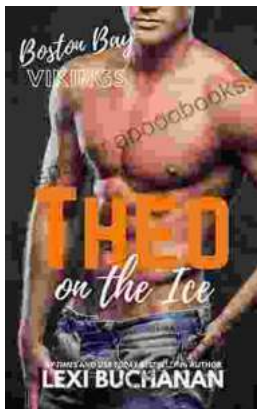
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