Course: SBI Clerk Mains

Subject: : Practice Set

Time:15 Minutes
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Directions (1-5): **निम्नलिखित प्रश्नों में दो समीकरण** (I) **और** (II) **दिए गए हैं, दोनों समीकरणों को हल करें और उत्तर दीजिए-**

Q1. **I.** $4x^2 - 15x - 46 = 0$
II. $6y^2 + 35y + 46 = 0$

(a) यदि x > y
(b) यदि x ≥ y
(c) यदि x < y
(d) यदि x ≤ y
(e) यदि x = y या संबंध स्थापित नहीं किया जा सकता है
L1Difficulty 3
QTagsQuadratic Inequalities
QCreatorDeepak Rohilla

Q2. **I.** $2x^2 - x - 10 = 0$
II. $2y^2 - y - 21 = 0$

(a) **यदि** x > y
(b) **यदि** x ≥ y
(c) **यदि** x < y
(d) **यदि** x ≤ y
(e) **यदि** x = y या संबंध स्थापित नहीं किया जा सकता है
L1Difficulty 3
QTagsQuadratic Inequalities
QCreatorDeepak Rohilla

Q3. **I.** $x^2 - 3x - 88 = 0$
II. $y^2 + 8y - 48 = 0$

(a) **यदि** x > y
(b) **यदि** x ≥ y
(c) **यदि** x < y
(d) **यदि** x ≤ y
(e) **यदि** x = y या संबंध स्थापित नहीं किया जा सकता है
L1Difficulty 3
QTagsQuadratic Inequalities

QCreatorDeepak Rohilla

Q4. **I.** $2x^2 - 9x + 9 = 0$
II. $y^2 - 7y + 12 = 0$
(a) **यदि** x > y
(b) **यदि** x ≥ y
(c) **यदि** x < y
(d) **यदि** x ≤ y
(e) **यदि** x = y या संबंध स्थापित नहीं किया जा सकता है
L1Difficulty 3
QTagsQuadratic Inequalities
QCreatorDeepak Rohilla

Q5. **I.** $4x^2 + 19x + 22 = 0$
II. $2y^2 + 11y + 15 = 0$
(a) **यदि** x > y
(b) **यदि** x ≥ y
(c) **यदि** x < y
(d) **यदि** x ≤ y
(e) **यदि** x = y या संबंध स्थापित नहीं किया जा सकता है
L1Difficulty 3
QTagsQuadratic Inequalities
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Directions (6-10): **निम्नलिखित प्रश्नों में प्रश्नवाचक-चिह्न (?) के स्थान पर क्या अनुमानित मान आएगा-**

Q6. $\sqrt{2900} \times \sqrt{498} \div \sqrt{251} = ? \div 8$
(a) 600
(b) 670
(c) 770
(d) 750
(e) 730
L1Difficulty 3
QTagsApproximation
QCreatorDeepak Rohilla

Q7. $89.998\% of 598.9 + 51.002\% of 899.99 - 171.015 = ?$
(a) 990
(b) 830
(c) 910

(d) 870
(e) 980
L1Difficulty 3
QTagsApproximation
QCreatorDeepak Rohilla

Q8. $\frac{341}{20.002} \div \frac{511}{30.07} \times \frac{179.909}{49.919} = ?$
(a) 36
(b) 7.2
(c) 72
(d) 3.6
(e) 1.8
L1Difficulty 3
QTagsApproximation
QCreatorDeepak Rohilla

Q9. $8999 \div 90.005 \times 95.998 = ? \times 20.999$
(a) 420
(b) 320
(c) 540
(d) 525
(e) 457
L1Difficulty 3
QTagsApproximation
QCreatorDeepak Rohilla

Q10. $(39.99)^2 - (9.9)^2 - (15.1)^2 = ?$
(a) 1375
(b) 1275
(c) 1100
(d) 1175
(e) 1225
L1Difficulty 3
QTagsApproximation
QCreatorDeepak Rohilla

Directions (11-15): **दी गई श्रृंखला में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आएगा-**

Q11. 2401, 1617, 1225, 1029, 931, ?
(a) 900
(b) 910
(c) 882

(d) 880
(e) 810
L1Difficulty 3
QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Q12. 13, 20, 39, 78, 145, ?
(a) 234
(b) 244
(c) 236
(d) 248
(e) 235
L1Difficulty 3
QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Q13. 9, 17, 65, 385, 3073, ?
(a) 40704
(b) 73251
(c) 65506
(d) 38521
(e) 30721
L1Difficulty 3
QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Q14. 25, 241, 584, 1096, 1825, ?
(a) 2625
(b) 2525
(c) 2725
(d) 2825
(e) 2025
L1Difficulty 3
QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Q15. 11, 30, 87, 258, 771, ?
(a) 2610
(b) 2450
(c) 2310
(d) 2730
(e) 2510
L1Difficulty 3
QTagsMISSING SERIES Quant
QCreatorDeepak Rohilla

Solutions

S1. Ans.(b)

I. $4x^2 - 15x - 46 = 0$

$\Rightarrow 4x^2 - 23x + 8x - 46 = 0$

$\Rightarrow (4x - 23)(x + 2) = 0$

$\Rightarrow x = -2, \frac{23}{4}$

II. $6y^2 + 35y + 46 = 0$

$\Rightarrow 6y^2 + 12y + 23y + 46 = 0$

$\Rightarrow (y + 2)(6y + 23) = 0$

$\Rightarrow y = -2, -\frac{23}{6}$

Sol. $x \geq y$

S2. Ans.(e)

I. $2x^2 - x - 10 = 0$

$\Rightarrow 2x^2 - 5x + 4x - 10 = 0$

$\Rightarrow (2x - 5)(x + 2) = 0$

$\Rightarrow x = \frac{5}{2}, -2$

II. $2y^2 - y - 21 = 0$

$\Rightarrow 2y^2 - 7y + 6y - 21 = 0$

$\Rightarrow (2y - 7)(y + 3) = 0$

$\Rightarrow y = \frac{7}{2}, -3$

Sol. No relation

S3. Ans.(e)

I. $x^2 - 3x - 88 = 0$

$\Rightarrow (x - 11)(x + 8) = 0$

$\Rightarrow x = 11, -8$

II. $y^2 + 8y - 48 = 0$

$\Rightarrow (y + 12)(y - 4) = 0$

$\Rightarrow y = 4, -12$

Sol. No relation

S4. Ans.(d)

I. $2x^2 - 9x + 9 = 0$

$\Rightarrow 2x^2 - 6x - 3x + 9 = 0$

$\Rightarrow (x - 3)(2x - 3) = 0$

$\Rightarrow x = 3, \frac{3}{2}$

II. $y^2 - 7y + 12 = 0$

$\Rightarrow y^2 - 3y - 4y + 12 = 0$

$\Rightarrow (y - 3)(y - 4) = 0$

$\Rightarrow y = 3, 4$

Sol. $y \geq x$

S5. Ans.(e)

I. $4x^2 + 19x + 22 = 0$

$\Rightarrow 4x^2 + 8x + 11x + 22 = 0$

$\Rightarrow (x + 2)(4x + 11) = 0$

$\Rightarrow x = -2, -\frac{11}{4}$

II. $2y^2 + 11y + 15 = 0$

$\Rightarrow 2y^2 + 6y + 5y + 15 = 0$

$\Rightarrow (y + 3)(2y + 5) = 0$

$\Rightarrow y = -3, -\frac{5}{2}$

Sol. No relation

S6. Ans.(a)

$? = \sqrt{2900} \times \sqrt{498} \div \sqrt{251} \times 8$

$\approx 54 \times 22 \div 16 \times 8$

≈ 600

Sol.

S7. Ans.(b)

$? = 89.998\% of 598.9 + 51.002\% of 899.99 - 171.015$

$\approx 90\% of 600 + 51\% of 900 - 171.05$

$\approx 540 + 459 - 171$

≈ 830

Sol.

S8. Ans.(d)

$$? = \frac{341}{20.002} \div \frac{511}{30.07} \times \frac{179.909}{49.919} = ?$$

$$\approx \frac{340}{20} \times \frac{30}{510} \times \frac{180}{50}$$

Sol. ≈ 3.6

S9. Ans. (e)

$$? = 8999 \div 90.005 \times 95.998 \div 20.999$$

$$\approx 9000 \div 90 \times 96 \div 21$$

$$\approx 9600 \div 21$$

Sol. ≈ 457

S10. Ans.(b)

$?= (39.99)^2 - (9.9)^2 - (15.1)^2$

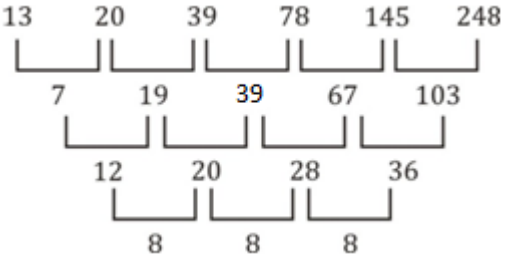
$= (40)^2 - (10)^2 - (15)^2$

Sol. $=1275$

S11. Ans.(c)

Sol. $-784, -392, -196, -98, -49$

S12. Ans.(d)



Sol.

S13. Ans.(e)

Sol. $\times 2 - 1,\ \times 4 - 3,\ \times 6 - 5,\ \times 8 - 7,\ \times 10 - 9$

S14. Ans.(d)

Sol. $+(6)^3, +(7)^3, +(8)^3, +(9)^3, +(10)^3$

S15. Ans.(c)

Sol. $\times 3 - 3,\ \times 3 - 3,\ \times 3 - 3,\ \times 3 - 3$