Course: SBI PO & IBPS Prelims
Subject: Practice Set

Time:12 Minutes
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Directions (1-4):- निम्नलिखित प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आएगा-

Q1. $\sqrt{?}\, of\ 6 + 20\%\ of\ 95 = \frac{1}{2}\ of\ 62$
(a) 3
(b) 4
(c) 5
(d) 6
(e) 7
L1Difficulty 2
QTags Simplification
QCreator AYUSH PANDEY

Q2. $\left(\frac{5}{3} of\ 6\frac{3}{5} of \frac{9}{11}\right) + ?^2 = 45$
(a) 5
(b) 7
(c) 4
(d) 8
(e) 6
L1Difficulty 2
QTags Simplification
QCreator AYUSH PANDEY

Q3. $\left(\frac{4}{7} \times \frac{14}{5} \div 2\right) - \left(\frac{3}{10} of\ ?\right) = \frac{4}{5} - 3$
(a) 10
(b) 8
(c) 9
(d) 11
(e) 12
L1Difficulty 2
QTags Simplification
QCreator AYUSH PANDEY

Q4. $4\frac{4}{5} + 2\frac{1}{15} - \frac{27}{5} = 2\frac{1}{5} \div 3 \times ?$

(a) $\frac{2}{9}$
(b) 1
(c) 2
(d) 3
(e) $\frac{1}{9}$
L1Difficulty 2
QTags Simplification
QCreator AYUSH PANDEY

Directions (5-8):- निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या अनुमानित मान आएगा, (सटीक मान की गणना करना अपेक्षित नहीं है)

Q5. 40.02% of 601 – 249.97 = ? – 69.98% of 910
(a) 607
(b) 627
(c) 637
(d) 617
(e) 647
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q6. $42001 \div 60 \times 29.95 = ? \times 41.99$
(a) 540
(b) 520
(c) 500
(d) 460
(e) 480
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q7. $(42.02)^2 + (6.98)^2 - (27.02)^2 = (33.01)^2 - ?$
(a) 1
(b) 2
(c) 3
(d) 4
(e) 5
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Q8. $\frac{699.97}{52} \div \frac{11}{207.99} \times \frac{121}{77.02} = ?$
(a) 400
(b) 410
(c) 390
(d) 420
(e) 380
L1Difficulty 3
QTags Approximation
QCreator AYUSH PANDEY

Directions (9-12): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या मान आना चाहिए:

Q9. 0.5, 1, 1.5, ?, 0.75, 0
(a) 2
(b) 1.5
(c) 1.25
(d) 1
(e) 0.75
L1Difficulty 2
QTags MISSING SERIES Quant
QCreator AYUSH PANDEY

Q10. 5, 15, 45, 135, ?, 1215
(a) 415
(b) 395
(c) 410
(d) 405
(e) 400
L1Difficulty 2
QTags MISSING SERIES Quant
QCreator AYUSH PANDEY

Q11. 90, 96, 102, 108, 114, ?
(a) 116
(b) 124
(c) 118
(d) 122
(e) 120
L1Difficulty 2

QTags MISSING SERIES Quant
QCreator AYUSH PANDEY

Q12. 1, 3, 6, ?, 18, 29
(a) 10
(b) 11
(c) 9
(d) 12
(e) 8
L1Difficulty 2
QTags MISSING SERIES Quant
QCreator AYUSH PANDEY

Directions (13-16): दी गई श्रृंखला में गलत पद ज्ञात कीजिए-

Q13. 512, 517, 527, 542, 570, 607
(a) 517
(b) 527
(c) 542
(d) 607
(e) 570
L1Difficulty 2
QTags Wrong Series
QCreator AYUSH PANDEY

Q14. 654, 660, 672, 690, 722, 764
(a) 690
(b) 654
(c) 660
(d) 722
(e) 764
L1Difficulty 2
QTags Wrong Series
QCreator AYUSH PANDEY

Q15. 78, 90, 106, 128, 158, 198
(a) 78
(b) 90
(c) 106
(d) 158
(e) series is in correct order.
L1Difficulty 2
QTags Wrong Series
QCreator AYUSH PANDEY

Q16. 12, 6, 4, 3, 2.4, 1.5
(a) 6
(b) 12
(c) 3
(d) 1.5
(e) 2.4
L1Difficulty 2
QTags Wrong Series
QCreator AYUSH PANDEY

Directions (17-20): प्रत्येक प्रश्न में दो समीकरण (I) **और** (II) **दिए गए हैं। समीकरणों को हल करें और उचित उत्तर दीजिए-**

(a) यदि $x < y$

(b) यदि $x > y$

(c) यदि $x \geq y$

(d) यदि $x \leq y$

(e) यदि $x = y$ या कोई संबंध स्थापित नहीं किया जा सकता है।

Q17.I. $2x^2 - 17x + 36 = 0$
II. $3y^2 - 22y + 40 = 0$
L1Difficulty 3
QTags Quadratic Inequalities
QCreator AYUSH PANDEY

Q18.I. $x^2 + 21x + 108 = 0$
II. $y^2 + 14y + 48 = 0$
L1Difficulty 2
QTags Quadratic Inequalities
QCreator AYUSH PANDEY

Q19.I. $2x^2 + 7x - 60 = 0$
II. $3y^2 - 28y + 64 = 0$
L1Difficulty 3
QTags Quadratic Inequalities
QCreator AYUSH PANDEY

Q20.I. $x^2 - 2x - 24 = 0$
II. $y^2 + 3y - 40 = 0$

L1Difficulty 2

QTags Quadratic Inequalities
QCreator AYUSH PANDEY

Solution

S1. Ans(b)
Sol. $\sqrt{?}\ of\ 6 + 20\%\ of\ 95 = \frac{1}{2}$ of 62
$\sqrt{?}\ of\ 6 = \frac{62}{2} - \frac{20}{100} \times 95 = 12$
$? = 2^2 = 4$

S2. Ans(e)
Sol. $\left(\frac{5}{3} of\ 6\frac{3}{5} of\ \frac{9}{11}\right) + ?^2 = 45$
$(\frac{5}{3} \times \frac{33}{5} \times \frac{9}{11}) + ?^2 = 45$
$?^2 = 36$
$? = \pm 6$

S3. Ans(a)
Sol. $\left(\frac{4}{7} \times \frac{14}{5} \div 2\right) - \left(\frac{3}{10} of\ ?\right) = \frac{4}{5} - 3$
$\left(\frac{4}{7} \times \frac{14}{5} \times \frac{1}{2}\right) - \left(\frac{3}{10} \times ?\right) = -\frac{11}{5}$
$\frac{4}{5} - \frac{3}{10}? = -\frac{11}{5}$
$? = 10$

S4. Ans(c)
Sol. $4\frac{4}{5} + 2\frac{1}{15} - \frac{27}{5} = 2\frac{1}{5} \div 3 \times ?$
$\frac{24}{5} + \frac{31}{15} - \frac{27}{5} = \frac{11}{5} \times \frac{1}{3} \times ?$
$\frac{22}{15} = \frac{11}{15} \times ?$
$? = 2$

S5. Ans(b)
Sol. 40.02% of 601 – 249.97 $\approx$? – 69.98% of 910
$40\%\ of\ 600 - 250 \approx\ ? - 70\%\ of\ 910$
$240 - 250 \approx ? - 637$
$? \approx\ 627$

S6. Ans(c)
Sol. $42001 \div 60 \times 29.95\ \approx ? \times 41.99$
$\frac{42000}{60} \times 30\ \approx ? \times 42$
$21000\ \approx 42 \times ?$

$? \approx 500$

S7. Ans(e)
Sol. $(42.02)^2 + (6.98)^2 - (27.02)^2 \approx (33.01)^2 - ?$
$42^2 + 7^2 - 27^2 \approx 33^2 - ?$
$1764 + 49 - 729 \approx 1089 - ?$
$? \approx 5$

S8. Ans(a)
Sol. $\frac{699.97}{52} \div \frac{11}{207.99} \times \frac{121}{77.02} \approx ?$
$\frac{700}{52} \div \frac{11}{208} \times \frac{121}{77} \approx ?$
$\frac{700}{52} \times \frac{208}{11} \times \frac{121}{77} \approx ?$
$? \approx 400$

S9. Ans(b)
Sol.
Pattern is
$0.5 \times (2 - 0) = 1$
$1 \times (2 - 0.5) = 1.5$
$1.5 \times (2 - 1) = 1.5$
$1.5 \times (2 - 1.5) = 0.75$
$0.75 \times (2 - 2) = 0$

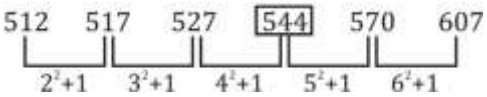
S10. Ans(d)
Sol.
Pattern is
$5 \times 3 = 15$
$15 \times 3 = 45$
$45 \times 3 = 135$
$135 \times 3 = 405$
$405 \times 3 = 1215$

S11. Ans(e)
Sol.
Pattern is
$90 + 6 = 96;\ \ 96 + 6 = 102$
$102 + 6 = 108;\ \ 108 + 6 = 114$
$114 + 6 = 120$

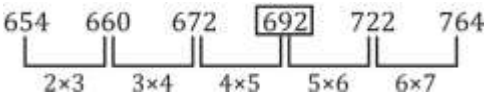
S12. Ans(b)
Sol.

Pattern is addition of prime no.
$1 + 2 = 3$
$3 + 3 = 6$
$6 + 5 = 11$
$11 + 7 = 18$
$18 + 11 = 29$

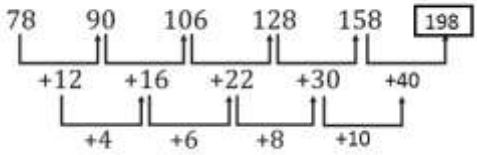
S13. Ans.(c)
Sol.
Pattern is



S14. Ans.(a)
Sol.
Pattern is

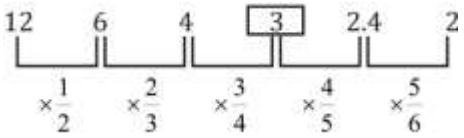


S15. Ans.(e)
Sol.
Pattern is



Series is in correct order.

S16. Ans.(d)
Sol.
Pattern is



S17. Ans.(c)
Sol.
I. $2x^2 - 17x + 36 = 0$
$2x^2 - 8x - 9x + 36 = 0$
$2x(x - 4) - 9(x - 4) = 0$

(2x – 9) (x – 4) = 0
x= $\frac{9}{2}$,4
II. $3y^2$ - 22y + 40 = 0
$3y^2$ - 12y – 10y + 40 = 0
3y(y – 4) – 10 (y – 4) = 0
(y – 4) (3y -10) = 0
y = 4, $\frac{10}{3}$
$x \geq y$

S18. Ans.(a)
Sol.
I. x^2 + 21x + 108 = 0
x^2 + 9x + 12x + 108 = 0
x(x + 9) + 12 (x + 9) = 0
(x + 12) (x + 9) = 0
x= -12, -9
II. y^2 + 14y + 48 = 0
y^2 + 6y+ 8y+ 48 = 0
y(y + 6) + 8 (y + 6) = 0
(y + 8) (y + 6) = 0
y = -8, -6
y > x

S19. Ans.(d)
Sol.
I. $2x^2$ + 7x – 60 = 0
$2x^2$ + 15x – 8x – 60 = 0
x(2x + 15) – 4 (2x + 15) = 0
(x – 4) (2x + 15) = 0
$x = 4, \frac{-15}{2}$
II. $3y^2$ - 28y + 64 = 0
$3y^2$ - 12y- 16y + 64 = 0
3y (y- 4) – 16 (y – 4) = 0
(3y – 16) (y – 4) = 0
$y = \frac{16}{3}, 4$
y ≥ x

S20. Ans.(e)
Sol.
I. x^2 - 2x – 24 = 0
x^2 - 6x + 4x – 24 = 0
x(x – 6) + 4 (x – 6) = 0
(x + 4) (x- 6) = 0

x= 6, -4
II. $y^2 + 3y - 40 = 0$
$y^2 + 8y - 5y - 40 = 0$
$y(y + 8) - 5 (y + 8) = 0$
$(y - 5) (y + 8) = 0$
y = 5, -8
No relation can be established