Quantitative Aptitude Quiz for SBI Clerk Pre 2020

Quiz Date: 1st March 2020

Directions (1-5): Find the wrong te	rm in the following number series.
Q1. 2, 5, 14, 41, 125, 365	
(a) 5	
(b) 14	
(c) 41	
(d) 125	
(e) 365	
02. 1.3.8.19.42.91	
(a) 42	
(b) 91	
(c) 19	
(d) 8	
(e) 3	
03. 23. 30. 21. 32. 19. 35	
(a) 23	
(b) 30	
(c) 35	
(d) 19	
(e) 32	
04 10 17 26 37 50 64 82	
(a) 17	
(h) 37	
(c) 50	
(d) 82	
(e) 64	
Q5. 16, 4, 8, 2, 6, 1	
(a) 6	
(D) 4	
(C) δ	
(a) 16	

Q6. Simple interest on a certain sum at the rate of 7 p.c.p.a for 4 years is Rs. 3584. What will be the compound interest on the same principal at 4 p.c.p.a. in two years?

(a) Rs. 1054.48

(b) Rs. 1044.48

(c) Rs. 938

(d) Rs. 1064.84

(e) None of these

Q7. The cost of pure milk is Rs. 16 per litre. On adding water, the mixture is sold at Rs. 15 per litre. In this way, the milkman earns 20% profit. What is the ratio of milk and water in the mixture? (note – water is free of cost)

- (a) 25 : 1
- (b) 7 : 25
- (c) 15 : 1
- (d) 1 : 15
- (e) None of these



Q8. Four persons–M, N, O and P – distributed a sum of Rs. 44352 among themselves. M got $\frac{3}{8}$ th of total amount. N got $\frac{1}{6}$ th part of the remaining amount. Therefore, the remaining amount was divided between O and P in the ratio 3 : 2. The amount received by P is

- (a) Rs. 8280
- (b) Rs. 9240
- (c) Rs. 8184
- (d) Rs. 6184
- (e) None of these

Q9. Three persons A, B and C start a business with Rs. 12800, Rs. 16800 and Rs. 9600 respectively. At the end of the year, B received Rs. 13125 as share in total profit. What is the share of C in the profit?

(a) Rs. 7850

- (b) Rs. 7550
- (c) Rs. 7500
- (d) Rs. 8500
- (e) None of these

Q10. A shopkeeper has goods of worth Rs. 6000. He sold half of the goods at a gain of 12%. At what profit per cent should he sell the remaining half of the stock so that he gets 18% profit on the whole?

- (a) 25%
- (b) 24%
- (c) 18%
- (d) 8%
- (e) None of these

Directi	ons (11	-15):	Two e	equatio	ns I an	d II are	e given	below.	You h	ave to	solve	these	equatio	ns and
give ans	swer													
(a) if x <	< y													
(b) if x :	> y								11					

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- (c) if $x \le y$
- (d) if $x \ge y$
- (e) if x = y or no relation can be established

Q11. I. $2x^2 + 11x + 14 = 0$ II. $4y^2 + 12y + 9 = 0$

Q12. I. $x^2 - 4 = 0$ II. $y^2 + 6y + 9 = 0$

Q13. I. $x^2 - 7x + 12 = 0$ II. $y^2 + y - 12 = 0$ Q14. I. $x^2 = 729$ II. $y = \sqrt{529}$ Q15. I. $x^2 - 423 = -398$ II. $y^2 + 321 = 346$ **Solutions** S1. Ans. (d) Sol. Series is × 3 –1, × 3–1, ×3–1... \therefore Wrong term = 125 English Medium **SBI CLERK COMPELTE** E-KIT English | Quant | Reasoning DI | Puzzle | Computer | Banking S2. Ans. (b) Sol. Series is × 2+1, × 2+2, × 2+3, × 2+4... $\therefore \text{ Wrong term } = 42 \times 2 + 5 = 89 \neq 91$ S3. Ans. (c) Sol. Series is 7, – 9 + 11, – 13 + 15, – 17... \therefore Wrong term = 35

S4. Ans. (e)

Sol.

 $3^2 + 1 = 10$

- $4^2 + 1 = 17$
- $5^2 + 1 = 26$
- $6^2 + 1 = 37$
- $7^2 + 1 = 50$
- $8^2 + 1 = 65$
- $9^2 + 1 = 82$
- \therefore Wrong term = 64

S5. Ans. (a)

Sol.

Series is $\div 4$, $\times 2$, $\div 4$, $\times 2$...

 \therefore Wrong term = 6

S6. Ans.(b) Sol.

 $P = \frac{SI \times 100}{Time \times Rate} = \frac{3584 \times 100}{4 \times 7}$ = Rs. 12800 CI = P[$\left(1 + \frac{R}{100}\right)^n - 1$] = 12800 [$\left(1 + \frac{4}{100}\right)^2 - 1$] 12800 [$\left(\frac{26}{25}\right)^2 - 1$] = 12800 $\left(\frac{676}{625} - 1\right)$ = 12800 $\times \frac{51}{625} = Rs. 1044.48$

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S7. Ans.(e) Sol. SP of 1 litre of mixture = Rs. 15, Gain = 20% $\therefore CP = \frac{100}{120} \times 15 = Rs.\frac{25}{2}$ CP of CP of milk water 16 0 Mean, value <u>25</u> 2 $16 - \frac{25}{2} = \frac{7}{2}$ <u>25</u> 2 ∴ Required ratio = 25: 7 S8. Ans.(b) Sol. M's share $= Rs.\left(\frac{3}{8} \times 44352\right) = Rs.16632$ Remaining amount = Rs. (44352 - 16632) = Rs. 27720 N's share = Rs. $\left(\frac{1}{6} \times 27720\right) = Rs. 4620$ ∴ P's share $= \operatorname{Rs.}\left(\frac{2}{5} \times (27720 - 4620)\right) = \operatorname{Rs.}9240$ S9. Ans.(c) Sol.

Ratio of their respective capitals = A: B: C

= 12800: 16800: 9600

Let the total profit be Rs. x.

:. B's share = Rs.
$$\frac{21x}{49}$$

:. $\frac{21x}{49} = 13125$
x = $\frac{13125 \times 49}{21} = Rs. 30625$
:. C'sshare = $\frac{12}{49} \times 30625 = 7500$

S10. Ans.(b)

Sol.

For 18% gain,

Total SP = $\frac{6000 \times 118}{100}$ = Rs. 7080

SP of goods worth Rs. 3000 at 12% profit

 $=\frac{3000\times112}{100}=Rs.\,3360$

Expected SP of remaining goods

= Rs. (7080 – 3360) = Rs. 3720

Let the gain per cent be x%.

Now, according to the question,

$$\frac{3000 \times (100 + x)}{100} = 3720$$
$$\Rightarrow \frac{100 + x}{100} = \frac{3720}{3000} = 1.24$$
$$\Rightarrow x = 124 - 100 = 24\%$$

S11. Ans.(a) Sol. $1.2x^2 + 11x + 14 = 0$ $\Rightarrow 2x^2 + 7x + 4x + 14 = 0$ $\Rightarrow x(2x + 7) + 2(2x + 7) = 0$ $\Rightarrow (x + 2)(2x + 7) = 0$

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$$\Rightarrow x = -2, -\frac{7}{2}$$
II.4y² + 12y + 9 = 0

$$\Rightarrow 4y^{2} + 6y + 6y + 9 = 0$$

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

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

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

$$\therefore x < y$$
S12. Ans.(b)
Sol.
I.x² - 4 = 0

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

$$\Rightarrow x = 2, -2$$
II.y² + 6y + 9 = 0

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

$$\Rightarrow y = -3$$

$$\therefore x > y$$
S13. Ans.(d)
Sol.
Sol.

 $I.x^{2} - 7x + 12 = 0$ $\Rightarrow x^{2} - 4x - 3x + 12 = 0$ $\Rightarrow x(x - 4) - 3(x - 4) = 0$ $\Rightarrow (x - 3)(x - 4) = 0$ $\Rightarrow x = 3, 4$ II. $y^{2} + y - 12 = 0$

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$$\Rightarrow y^{2} + 4y - 3y - 12 = 0$$
$$\Rightarrow y(y + 4) - 3(y + 4) = 0$$
$$\Rightarrow (y - 3)(y + 4) = 0$$
$$\Rightarrow y = 3, -4$$
$$\therefore x \ge y$$



S14. Ans.(e) Sol. $I.x^{2} = 729$ $\Rightarrow x^{2} - 729 = 0$ $\Rightarrow (x - 27)(x + 27) = 0$ $\Rightarrow x = 27, -27$ II. $y = \sqrt{529}$ y = 23

 \therefore No relation can be established between x and y.

S15. Ans.(e) Sol. $I.x^2 = 25$ Or, $x = \pm 5$ $II.y^2 = 25$

Or, y = ± 5

∴ x = y

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