IBPS CLERKS

Practice Test 2

NUMERICAL ABILITY

Directions (Q. 66-75): What should come in place of question mark (?) in the following questions?

1. $336829 - 2568 - 182639 = ?$

1) 161522 2) 151642
3) 151622 4) 141622
5) 121622

2. $157 \div 5 \div 0.2 = ? - 12 \times 1.4$

1) 163.8 2) 173.8
3) 163.48 4) 184.48
5) 178.8

3. $15\frac{1}{4} + 32\frac{1}{3} + 12\frac{3}{4} \times 7\frac{1}{17} = ? + 13\frac{1}{4}$

1) $122\frac{1}{4}$ 2) $124\frac{1}{12}$
3) $124\frac{3}{4}$ 4) $124\frac{1}{3}$
5) $123\frac{1}{3}$

4. $3.6 \times 1.5 + 4.4 \times 2.5 - 1.2 \times 2.8 = ?$

1) 13.04 2) 11.04
3) 15.40 4) 16.04
5) 17.46

5. 156% of $780 - \frac{2}{5}$ of 480 + 85% of 540 = ?

1) 1538.8 2) 1483.8
3) 1388.5 4) 1488.8
5) None of these

6. $160 \div 12.5 \times 4.5 + 34.2 \times 3.4 = ?$

1) 1220.4 2) 1221.04
3) 1220.04 4) 1320.04
5) 1120.4

7. $14580 \div 54 \div 12 = ?$

1) 22.05 2) 22.5
3) 23.5 4) 25
5) 26.5

8. $(12)^{\frac{3}{2}} \times (36)^{\frac{5}{2}} \times (144)^{\frac{3}{2}} \div (12)^{?} = 1728$

1) 5 2) 6
3) $\frac{5}{2}$ 4) $\frac{7}{2}$
5) 4

9. 16% of 80 + ?% of 44 = 34.8

1) 60 2) 50
3) 40 4) 70
5) 55

10. 73% of 180 + 23% of 640.5 = ?

1) 287.715 2) 268.715
3) 278.715 4) 288.715
5) 278.517

11. A bus covers first 49 km of its journey in 45 minutes and the remaining 36 km in 30 minutes. What is the average speed of the bus?

1) 68 kmph 2) 58 kmph
3) 48 kmph 4) 60 kmph
5) 78 kmph

12. What is the least number that can be added to 7300 to make it a perfect square?

1) 66 2) 86
3) 94 4) 96
5) 72

13. Sujeet spent 14% of his income on electricity bills, 28% on rent and 18% on shopping. $\frac{1}{4}$ of the remaining amount is ₹ 5125. How much did he spend on electricity bill?

1) ₹ 8750 2) ₹ 8270
3) ₹ 6270 4) ₹ 5770
5) ₹ 7175

14. A particular sum was divided among A, B and C in the ratio of 3 : 7 : 5. If the amount received by B was ₹ 6034, what was the difference between the amount received by A and C?

1) ₹1824 2) ₹1642
3) ₹1924 4) ₹1724
5) ₹2024

15. What will be the compound interest accrued

1) 70.41% 2) 50.41%
3) 58.14% 4) 56.41%
5) None of these

31. In how many different ways can the letters of the word 'PREPARED' be arranged?

1) 2520 2) 5040
3) 1240 4) 20160
5) None of these

32. A and B are two alloys of gold and copper prepared by mixing metals in the ratio of 5 : 2 and 5 : 7 respectively. If equal quantities of the alloys are melted to form a third alloy C, the ratio of gold to copper in alloy C will be

1) 95 : 73 2) 73 : 95
3) 19 : 73 4) 73 : 19
5) Can't be determined

33. The cost of 14 smart phones and 8 laptops is ₹326000. What is the cost of 35 smart phones and 20 laptops?

1) ₹615000 2) ₹805000
3) ₹815000 4) ₹915000
5) ₹105000

34. When a natural number N is divided by 5 the remainder is 2, its quotient when divided by 7 the remainder is 3, and its quotient when divided by 9 the remainder is 4. If N is the smallest number then the sum of the digits of N is

1) 16 2) 13
3) 14 4) 15
5) 12

35. A rectangular room has length 36 metres and breadth 12 metres. What will be the total cost if the cost of flooring is ₹194 per sq metre?

1) ₹83808 2) ₹93808
3) ₹73808 4) ₹84808
5) ₹84880

13. (5) One-fourth of the remaining amount

$= ₹\ 5125$

Remaining amount

$= 100 - 14 - 28 - 18 = 40\%$

$\therefore \quad 40\% = 5125 \times 4$

Money spent on electricity bill

$= \frac{5125 \times 14 \times 4}{40 \times 100} \times 100 = ₹\ 7175$

14. (4) Suppose the amount received by

$B = 7x, A = 3x$ and $C = 5x$

Since ₹ 6034 is received by B,

$7x = 6034$

or, $x = \frac{6034}{7} = 862$

So the amount received by A

$= 3 \times 862 = ₹\ 2586$

And amount received by C

$= 5 \times 862 = ₹\ 4310$

$\therefore$ Reqd difference

$= 4310 - 2586 = ₹\ 1724$

15. (1) Rate of interest for two years

$= \frac{15 + 15 + 15 \times 15}{100} = 32.25$

$\therefore \quad CI = \frac{9800 \times 32.25}{100} = ₹\ 3160.5$

16. (5) 12 years ago, the age of Suresh = x years and that of Alok = 4x years

Now, after 12 years,

$4x + 12 = 2(x + 12)$

or, $4x - 2x = 24 - 12 = 12$

or, $2x = 12$

$\therefore \quad x = 6$ years

So, Alok's present age

$= 4 \times 6 + 12 = 36$ years

17. (1) Let the number of pens be x

$\therefore \quad \frac{288}{x} - \frac{288}{x+8} = 6$

or, $\frac{288x + 288 \times 8 - 288x}{x(x+8)} = 6$

or, $x(x+8) = \frac{288 \times 8}{6}$

$= 48 \times 8 = 384$

or, $x(x+8) = 16 \times 24$

$\therefore \quad x = 16$

Hence the number of pens = 16

18. (4) Pipe A can fill the tank in one hour

$= \frac{1}{12}$ part

Pipe B can fill the tank in one hour

$= \frac{1}{24}$ part

Pipe C can fill the tank in one hour

$= \frac{1}{48}$ part

$\therefore$ The part of the tank filled in 1 hour by all the three pipes.

$= \frac{1}{12} + \frac{1}{24} - \frac{1}{48}$

$= \frac{4 + 2 - 1}{48} = \frac{5}{48}$

Hence, the tank will be filled in

$\frac{48}{5} = 9.6$ hours

19. (2) Let the speed of the train be x kmph.

$\therefore$ Relative speed = (x + 8) kmph

Now, $\frac{\text{Length of the train}}{\text{Relative speed}} = \text{Time}$

or, $= \frac{\frac{240}{1000}}{x+8} = \frac{12}{60 \times 60}$

or, $\frac{24}{100(x+8)} = \frac{12}{3600}$

$$= \frac{2\times3\times4\times5\times6\times7\times8}{1\times2\times1\times2\times1\times2}$$

$$= 2\times3\times4\times5\times6\times7 = 5040$$

32. (1) In 1 kg of alloy A,

$$\text{Gold} = \frac{5}{7},\ \text{Copper} = \frac{2}{7}$$

In 1 kg of alloy B,

$$\text{Gold} = \frac{5}{12},\ \text{Silver} = \frac{7}{12}$$

Ratio of gold and copper in alloy C

$$= \frac{5}{7}+\frac{5}{12} : \frac{2}{7}+\frac{7}{12}$$

$$= \frac{60+35}{84} : \frac{24+49}{84}$$

$$= 95 : 73$$

33. (3) The cost of 14 smart phones + 8 laptops

$= ₹\ 326000$

Cost of 7 smart phones + 4 laptops

$= ₹\ 163000$

Cost of (7×5) smart phones

$+ (4 \times 5)$ laptops

$= 163000 \times 5 = ₹\ 815000$

34. (2)

5	N
7	$A \rightarrow 2$
9	$B \rightarrow 3$
	$I \rightarrow 4$

$B = 9 \times 1 + 4 = 13$

$A = 7 \times 13 + 3 = 94$

$N = 5 \times 94 + 2 = 472$

Sum of digits $= 4 + 7 + 2 = 13$

35. (1) Cost $= 36 \times 12 \times 194 = ₹\ 83808$