

IBPS CLERKS

Practice Test 4

NUMERICAL ABILITY

1. In an urn there are 4 red balls and 3 blue balls. If two balls are drawn at random, find the probability that none is red.

1) $\frac{2}{7}$ 2) $\frac{4}{7}$

3) $\frac{1}{7}$ 4) $\frac{3}{7}$

5) None of these

2. On annual day of a school some chocolates were to be distributed equally among 420 children. But on that particular day, due to some reason 140 more children of another school joined them; hence each child got 1 chocolate less. How many chocolates were originally supposed to be distributed among the children?

1) 1640 2) 1680

3) 1690 4) 1600

5) None of these

3. Raj Kumar got the result of his 8th class. Each subject consists of a maximum of 140 marks. If he score 98 marks in Science; 129 marks in Sanskrit; 131 marks in Maths, 110 marks in English and 120 marks in Hindi, what was his percentage of marks in all the five subjects?

1) 84% 2) 82%

3) 77% 4) 79%

5) None of these

4. If Suresh sells an article at a price of ₹ 9300, he incurs a loss of ₹ 3100. At what price should he sell the article so that he gets a profit of 25%?

1) ₹ 7250 2) ₹ 7350

3) ₹ 7650 4) ₹ 7750

5) None of these

5. There is a circular ground whose area is 246400 sq. metre. If a person runs at the speed of 14.08 m/sec, then how much time will he take to complete the circle?

1) 125 sec 2) 130 sec

3) 100 sec 4) 120 sec

5) None of these

Directions (Q. 71-75): What should come in place of the question mark (?) in the following number series?

6. 2 4 16 96 768 ? 92160

1) 7680 2) 7580

3) 7608 4) 7090

5) 7860

7. 14 36 ? 300 894 2676 8022

1) 101 2) 102

3) 103 4) 104

5) None of these

8. 5 8 13 20 ? 44 61

1) 29 2) 30

3) 31 4) 32

5) 37

9. 11 16 31 56 91 136 ?

1) 171 2) 181

3) 185 4) 191

5) 197

10. 3 4 12 45 196 ?

1) 985 2) 990

3) 995 4) 1000

5) 1005

11. The simple interest accrued in 2 years on a principal of ₹ 24000 is one-eighth of the principal. What is the rate of simple interest p.c.p.a?

1) 5 2) 4.5

3) 6.25 4) 7.25

5) None of these

12. If the person runs 14.35 km in five weeks, then what distance does he travel everyday?

1) 400m 2) 410m

3) 405m 4) 415m

5) None of these

13. If a train 280 metre long runs at the speed of 7.4 m/second, how much time will it take to cross a platform 460 metre long?

1) 95 sec 2) 96 sec

3) 98 sec 4) 99 sec

5) 100 sec

- 3) 660 4) 672
5) None of these
30. If the square of a number is subtracted from 4052 and the difference is multiplied by 15, the answer so obtained is 41340. What is the number?
- 1) 36 2) 1024
3) 32 4) 1296
5) None of these
31. 20% of the total cost of a plot with an area of 395 sq. ft is ₹ 78210. What is the rate of per sq. ft of the plot?
- 1) ₹ 1020 2) ₹ 999
3) ₹ 1000 4) ₹ 995
5) None of these
32. The owner of a furniture shop charges his customers 15% more than the cost price. If a customer paid ₹ 9039 for the sofa set, then what is the cost price of the sofa set?
- 1) ₹ 7680 2) ₹ 7860
3) ₹ 7880 4) ₹ 7660
5) None of these
33. Each child from a certain school can make 5 items of handicraft in a day. If 1125 handicraft items are to be displayed in an exhibition then in how many days can 25 children make these items?
- 1) 6 days 2) 9 days
3) 8 days 4) 7 days
5) None of these
34. The product of two successive positive integers is 462. Which is the smaller integer?
- 1) 20 2) 22
3) 21 4) 23
5) None of these
35. While withdrawing an amount of ₹ 49350 a customer by mistake collects ₹ 48150. The remaining amount is deposited back to his account by the bank, which shows the balance of ₹ 25376. What will be the customer's balance after depositing the remaining amount?
- 1) ₹ 26576 2) ₹ 26676
3) ₹ 26586 4) ₹ 26686
5) None of these

$$16 + 15 = 31$$

$$31 + 25 = 56$$

$$56 + 35 = 91$$

$$91 + 45 = 136$$

$$136 + 55 = \mathbf{191}$$

10. (5) The pattern is

$$3 \times 1 + 1^2 = 3 + 1 = 4$$

$$4 \times 2 + 2^2 = 8 + 4 = 12$$

$$12 \times 3 + 3^2 = 36 + 9 = 45$$

$$45 \times 4 + 4^2 = 180 + 16 = 196$$

$$196 \times 5 + 5^2 = 980 + 25 = \mathbf{1005}$$

11. (3) S.I. = $\frac{1}{8}$ × principal

$$= \frac{1}{8} \times 24000 = ₹ 3000$$

$$\therefore \text{Rate} = \frac{\text{S.I.} \times 100}{\text{Principal} \times \text{Time}}$$

$$= \frac{3000 \times 100}{24000 \times 2} = 6.25\% \text{ per annum}$$

Second Method

$$\frac{\text{S.I.}}{\text{Principal}} = \frac{1}{8}$$

$$\therefore \text{Rate} = \frac{\text{S.I.}}{\text{Principal}} \times \frac{100}{\text{Time}}$$

$$= \frac{1}{8} \times \frac{100}{2} = \frac{25}{4}$$

$$= 6.25\% \text{ per annum.}$$

12. (2) Distance covered in 5 weeks i.e., 35 days

$$= 14.35 \text{ km} = 14350 \text{ metre}$$

\therefore Distance covered per day

$$= \frac{14350}{35} = 410 \text{ metre}$$

13. (5) Total length to be covered

$$= 280 + 460 = 740 \text{ metre}$$

\therefore Time taken

$$= \frac{740}{7.4} = 100 \text{ second}$$

14. (1) Required C.P.

$$= \frac{18270 \times 100}{145} = ₹ 12600$$

15. (3) Let the fraction by $\frac{x}{y}$

$$\therefore \frac{x \times 120}{y \times 125} = \frac{3}{5}$$

$$\Rightarrow \frac{x}{y} = \frac{3}{5} \times \frac{125}{120} = \frac{5}{8}$$

16. (1) $? = \frac{12}{13} + \frac{1}{26} + \frac{14}{13}$

$$= \frac{24 + 1 + 28}{26} = \frac{53}{26} = 1\frac{1}{26}$$

17. (2) $(?)^2 = \frac{4 \times 566}{5} + 24.2 - 36$

$$= 452.8 + 24.2 - 36$$

$$= 477 - 36 = 441$$

$$\therefore ? = \sqrt{441} = 21$$

18. (3) $5252 + 2525 = ? \times 25$

$$\Rightarrow 7777 = ? \times 25$$

$$\Rightarrow ? = \frac{7777}{25} = 311.08$$

19. (4) $8 \times ? = \frac{4888}{4} = 1222$

$$\Rightarrow ? = \frac{1222}{8} = 152.75$$

20. (2) $39254 + 5217 - 2286 = ? \times 50$

$$\Rightarrow 42185 = ? \times 50$$

$$\Rightarrow ? = \frac{42185}{50} = 843.7$$

21. (1) If two equal distance are covered at two different speeds of x kmph and y kmph, then

Average speed

$$= \left(\frac{2xy}{x+y} \right) \text{ kmph}$$

$$= \left(\frac{2 \times 58 \times 52}{58 + 52} \right) \text{ kmph}$$

$$= \frac{1125}{5 \times 25} = 9 \text{ days}$$

34. (3) Suppose the two consecutive integers be x and $x + 1$ respectively.

According to question

$$(x) \times (x + 1) = 462$$

$$\Rightarrow x^2 + x - 462 = 0$$

$$\Rightarrow x^2 + 22x - 21x - 462 = 0$$

$$\Rightarrow x(x + 22) - 21(x + 22) = 0$$

$$\Rightarrow (x + 22)(x - 21)$$

$$\therefore x = 21$$

35. (1) Customer's balance in account

$$= (49350 - 48150) + 25376$$

$$= 1200 + 25376 = ₹ 26576$$