

Kerala High Court - Office Attendant

Numerical Ability | 20 Questions with Answers & Solutions

Format: MCQ, 4 options each, 1 mark per question. Practice format - check the official notification for exact marks and negative marking.

PRACTICE QUESTIONS

Q1. Simplify: $15 + 5 \times 4 - 10 \div 2$

- (A) 25
- (B) 30
- (C) 35
- (D) 40

Answer: (B) 30 - BODMAS: $5 \times 4 = 20$; $10 \div 2 = 5$; $15 + 20 - 5 = 30$.

Q2. What is 25% of 480?

- (A) 100
- (B) 110
- (C) 120
- (D) 125

Answer: (C) 120 - $480 \times 25/100 = 120$.

Q3. Find the average of 12, 18, 24, 30 and 36.

- (A) 22
- (B) 24
- (C) 26
- (D) 28

Answer: (B) 24 - Sum = 120; $120 \div 5 = 24$.

Q4. Two numbers are in the ratio 3 : 5 and their sum is 160. The larger number is

- (A) 60
- (B) 80
- (C) 100
- (D) 120

Answer: (C) 100 - Total parts = 8; one part = 20; larger = $5 \times 20 = 100$.

Q5. An article bought for Rs. 800 is sold for Rs. 920. The profit percentage is

- (A) 12%
- (B) 15%
- (C) 18%
- (D) 20%

Answer: (B) 15% - Profit = 120; $120/800 \times 100 = 15\%$.

Q6. Simple interest on Rs. 5000 at 8% per annum for 3 years is

- (A) Rs. 1000
- (B) Rs. 1100
- (C) Rs. 1200
- (D) Rs. 1500

Answer: (C) Rs. 1200 - $SI = PRT/100 = 5000 \times 8 \times 3 / 100 = \text{Rs. } 1200$.

Q7. A man walks at 5 km/h. How long will he take to cover 12.5 km?

- (A) 2 hours
- (B) 2.5 hours
- (C) 3 hours
- (D) 3.5 hours

Answer: (B) 2.5 hours - Time = Distance / Speed = $12.5 / 5 = 2.5$ hours.

Q8. A can do a work in 12 days and B in 6 days. Working together, they finish it in

- (A) 3 days
- (B) 4 days
- (C) 5 days
- (D) 9 days

Answer: (B) 4 days - Rate = $\frac{1}{12} + \frac{1}{6} = \frac{3}{12} = \frac{1}{4}$ per day, so 4 days.

Q9. The HCF of 36 and 48 is

- (A) 6
- (B) 8
- (C) 12
- (D) 24

Answer: (C) 12 - $36 = 2 \times 2 \times 3 \times 3$; $48 = 2 \times 2 \times 2 \times 2 \times 3$; common = $2 \times 2 \times 3 = 12$.

Q10. The LCM of 12, 15 and 20 is

- (A) 30
- (B) 60
- (C) 90
- (D) 120

Answer: (B) 60 - $12 = 2^2 \times 3$; $15 = 3 \times 5$; $20 = 2^2 \times 5$; LCM = $4 \times 3 \times 5 = 60$.

Q11. Find the next number: 2, 6, 12, 20, 30, ?

- (A) 40
- (B) 42
- (C) 44
- (D) 48

Answer: (B) 42 - Differences 4, 6, 8, 10, next 12; $30 + 12 = 42$ ($n \times (n+1)$).

Q12. A father is 4 times as old as his son. The sum of their ages is 50 years. The son's age is

- (A) 8 years
- (B) 10 years
- (C) 12 years
- (D) 15 years

Answer: (B) 10 years - Son = x , father = $4x$; $5x = 50$; $x = 10$.

Q13. The length and breadth of a rectangle are 15 m and 8 m. Its perimeter is

- (A) 23 m
- (B) 46 m
- (C) 92 m
- (D) 120 m

Answer: (B) 46 m - Perimeter = $2(l + b) = 2 \times 23 = 46$ m.

Q14. The square root of 1764 is

- (A) 32
- (B) 38
- (C) 42
- (D) 48

Answer: (C) 42 - $42 \times 42 = 1764$.

Q15. A shirt marked at Rs. 750 is sold at 20% discount. The selling price is

- (A) Rs. 550
- (B) Rs. 600
- (C) Rs. 650
- (D) Rs. 700

Answer: (B) Rs. 600 - Discount = 150; SP = $750 - 150 = \text{Rs. } 600$.

Q16. Compound interest on Rs. 10,000 at 10% per annum for 2 years is

- (A) Rs. 2000
- (B) Rs. 2100
- (C) Rs. 2200
- (D) Rs. 2500

Answer: (B) Rs. 2100 - Amount = $10000 \times (1.1)^2 = 12100$; CI = Rs. 2100.

Q17. Simplify: $\frac{3}{4} + \frac{5}{8}$

- (A) $\frac{8}{12}$
- (B) $\frac{9}{8}$
- (C) $\frac{11}{8}$
- (D) $\frac{13}{8}$

Answer: (C) $\frac{11}{8} - \frac{3}{4} = \frac{6}{8}$; $\frac{6}{8} + \frac{5}{8} = \frac{11}{8}$.

Q18. Convert 72 km/h into m/s.

- (A) 15 m/s
- (B) 18 m/s
- (C) 20 m/s
- (D) 25 m/s

Answer: (C) 20 m/s - km/h to m/s: multiply by $\frac{5}{18}$; $72 \times \frac{5}{18} = 20$.

Q19. If 8 pens cost Rs. 120, what is the cost of 12 pens?

- (A) Rs. 160
- (B) Rs. 170
- (C) Rs. 180
- (D) Rs. 200

Answer: (C) Rs. 180 - 1 pen = Rs. 15; $12 \times 15 = \text{Rs. } 180$.

Q20. The sum of the first 20 natural numbers is

- (A) 200
- (B) 210
- (C) 220
- (D) 420

Answer: (B) $210 - \frac{n(n+1)}{2} = \frac{20 \times 21}{2} = 210$.

QUICK ANSWER KEY

No.	Ans	No.	Ans	No.	Ans	No.	Ans
Q1	B	Q6	C	Q11	B	Q16	B
Q2	C	Q7	B	Q12	B	Q17	C
Q3	B	Q8	B	Q13	B	Q18	C
Q4	C	Q9	C	Q14	C	Q19	C
Q5	B	Q10	B	Q15	B	Q20	B

QUICK FORMULAS

Topic	Quick Formula
Percentage	Value $\times$ % / 100; Profit % = Profit / CP $\times$ 100
Simple Interest	SI = $P \times R \times T / 100$
Compound Interest	$A = P(1 + R/100)^n$; CI = A - P
Speed	Speed = Distance / Time; km/h to m/s: $\times 5/18$
Time & Work	Together = (A $\times$ B) / (A + B) days
Average	Sum of items / Number of items
Sum of n numbers	$n(n+1)/2$
Rectangle	Area = l $\times$ b; Perimeter = 2(l + b)