📘 **HTET Quantitative Aptitude**

PYQ Based 50 MCQs WITH ANSWERS

🟦 **NUMBER SYSTEM**

1. What is the LCM of 12 and 18?
   A) 24
   B) 36
   C) 48
   D) 72
   ✅ **Answer: B**

2. HCF of 24, 36 and 60 is:
   A) 6
   B) 12
   C) 18
   D) 24
   ✅ **Answer: B**

3. Which of the following is a prime number?
   A) 21
   B) 29
   C) 39
   D) 49
   ✅ **Answer: B**

4. The smallest composite number is:
   A) 1
   B) 2
   C) 3
   D) 4
   ✅ **Answer: D**

5. If a number is divisible by 9, it is also divisible by:
   A) 2
   B) 3
   C) 6
   D) 11
   ✅ **Answer: B**

🟦 **SIMPLIFICATION**

6. $25 \times 4 \div 5 = ?$
   A) 5
   B) 10
   C) 20

D) 25

✅ **Answer: C**

7. $6 + 18 \div 3 \times 2 = ?$
   A) 18
   B) 20
   C) 24
   D) 30

   ✅ **Answer: B**

8. $(12)^2 - (8)^2 = ?$
   A) 80
   B) 96
   C) 112
   D) 128

   ✅ **Answer: C**

9. $3/4 + 5/8 = ?$
   A) 11/8
   B) 13/8
   C) 7/8
   D) 5/4

   ✅ **Answer: B**

10. $0.25 \times 0.4 = ?$
    A) 0.01
    B) 0.1
    C) 1
    D) 10

    ✅ **Answer: B**

🟦 **PERCENTAGE**

11. 25% of 200 is:
    A) 25
    B) 40
    C) 50
    D) 60

    ✅ **Answer: C**

12. Increase of 20% on 150 gives:
    A) 160
    B) 170
    C) 180
    D) 190

    ✅ **Answer: C**

13. What is 10% of 2 kg?
    A) 20 g

B) 200 g
C) 250 g
D) 500 g
✅ **Answer: B**

14. If the price increases from ₹100 to ₹120, the increase % is:
    A) 10%
    B) 15%
    C) 20%
    D) 25%
    ✅ **Answer: C**

15. 50% of a number is 40. The number is:
    A) 60
    B) 70
    C) 80
    D) 100
    ✅ **Answer: C**

🟦 **PROFIT & LOSS**

16. CP = ₹200, SP = ₹240. Profit % = ?
    A) 10%
    B) 15%
    C) 20%
    D) 25%
    ✅ **Answer: C**

17. Loss of ₹50 on selling price of ₹450. CP is:
    A) 400
    B) 450
    C) 500
    D) 550
    ✅ **Answer: C**

18. A shopkeeper gains 25%. If CP is ₹80, SP is:
    A) 90
    B) 100
    C) 110
    D) 120
    ✅ **Answer: B**

19. If SP = CP, then profit/loss is:
    A) Profit
    B) Loss
    C) No profit no loss
    D) None
    ✅ **Answer: C**

20. Profit of 10% on CP of ₹300 is:
    A) 20
    B) 25
    C) 30
    D) 40
    ✅ **Answer: C**

🟦 **SIMPLE INTEREST**

21. SI on ₹1000 at 10% for 2 years = ?
    A) 100
    B) 150
    C) 200
    D) 250
    ✅ **Answer: C**

22. Principal is ₹500, rate is 5%, time is 4 years. SI = ?
    A) 80
    B) 90
    C) 100
    D) 110
    ✅ **Answer: C**

23. If SI = ₹240, P = ₹1200, T = 2 years, rate = ?
    A) 8%
    B) 10%
    C) 12%
    D) 15%
    ✅ **Answer: C**

24. Formula of Simple Interest is:
    A) PRT
    B) P + RT
    C) (PRT)/100
    D) (P + R + T)/100
    ✅ **Answer: C**

25. Amount = Principal + ?
    A) Loss
    B) Profit
    C) Interest
    D) Rate
    ✅ **Answer: C**

🟦 **AVERAGE**

26. Average of 5 and 15 is:
    A) 8
    B) 9
    C) 10
    D) 11
    ✅ **Answer: C**

27. Average of first 10 natural numbers is:
    A) 4.5
    B) 5
    C) 5.5
    D) 6
    ✅ **Answer: C**

28. Sum of numbers is 120, count is 6. Average = ?
    A) 18
    B) 20
    C) 22
    D) 24
    ✅ **Answer: B**

29. Average × Total items = ?
    A) Mean
    B) Median
    C) Sum
    D) Mode
    ✅ **Answer: C**

30. Average age of 4 students is 12 years. Total age = ?
    A) 36
    B) 42
    C) 48
    D) 52
    ✅ **Answer: C**

🟦 **TIME & WORK**

31. A can do a work in 10 days. Rate of work per day = ?
    A) 1/5
    B) 1/10
    C) 1/15
    D) 1/20
    ✅ **Answer: B**

32. A work is completed in 5 days by 10 men. In 1 day work = ?
    A) 1/5
    B) 1/10
    C) 1/50

D) 1/20
✅ **Answer: A**

33. If A is twice as efficient as B, then ratio of work = ?
A) 1:2
B) 2:1
C) 3:1
D) 1:3
✅ **Answer: B**

34. If A completes work in 6 days, B in 12 days, together they take:
A) 3 days
B) 4 days
C) 5 days
D) 6 days
✅ **Answer: B**

35. More men means work done in:
A) More time
B) Same time
C) Less time
D) No change
✅ **Answer: C**

🟦 **TIME, SPEED & DISTANCE**

36. Speed = Distance ÷ ?
A) Time
B) Speed
C) Work
D) Average
✅ **Answer: A**

37. A car covers 60 km in 1 hour. Speed = ?
A) 40 km/h
B) 50 km/h
C) 60 km/h
D) 70 km/h
✅ **Answer: C**

38. Distance = Speed × ?
A) Work
B) Time
C) Rate
D) Average
✅ **Answer: B**

39. If speed is doubled, time becomes:
A) Double

B) Half

C) Same

D) Zero

✅ **Answer: B**

40. 36 km/h is equal to ___ m/s

A) 8

B) 9

C) 10

D) 12

✅ **Answer: C**

🟦 **RATIO & PROPORTION**

41. Ratio of 2:4 is same as:

A) 1:4

B) 2:6

C) 1:2

D) 4:8

✅ **Answer: C**

42. If A:B = 3:5 and B = 20, A = ?

A) 10

B) 12

C) 15

D) 18

✅ **Answer: B**

43. Ratio of boys to girls is 4:3. Total students = 21. Boys = ?

A) 10

B) 11

C) 12

D) 14

✅ **Answer: C**

44. If a:b = b:c, then a:b:c = ?

A) 1:2:3

B) 1:1:1

C) a:b:c

D) a^2:ab:b^2

✅ **Answer: D**

45. If x:y = 5:7, then x/y = ?

A) 7/5

B) 5/7

C) 12/5

D) 5/12

✅ **Answer: B**

▮ MISCELLANEOUS

46. Perimeter of a square of side 4 cm is:
    A) 8 cm
    B) 12 cm
    C) 16 cm
    D) 20 cm
    ✅ **Answer: C**

47. Area of rectangle = ?
    A) l + b
    B) 2(l + b)
    C) l × b
    D) l ÷ b
    ✅ **Answer: C**

48. Roman numeral of 50 is:
    A) X
    B) L
    C) C
    D) D
    ✅ **Answer: B**

49. Value of π is approximately:
    A) 2.14
    B) 3.14
    C) 4.14
    D) 5.14
    ✅ **Answer: B**

50. The smallest natural number is:
    A) 0
    B) 1
    C) 2
    D) 3
    ✅ **Answer: B**