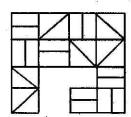
23.	Which number will replace	the "i	?"
	mark in the following series?		

(?), 19, 37, 61, 91, 127, 169.

- (1) 7
- (2) 11
- (3) 13
- (4) 17

24. Which figure from among the given options fits the best within the gap in the following figure?



- (1)
- (2)
- (3)
- (4)

25. What is the smallest number of players who can be placed in the given formation?

Formation: Two players in front of a player, two players behind a player and one player between two players.

- (1) 3
- (2)
- (3)
- (4)

26. Five of the batsmen of a team (A, B, C, D and E) scored at an average of 36 runs in a cricket match. While B and C together scored 107 runs, B's score was equal to the scores of D

and E combined. If D's score was 5 more than E and E's score is 8 less than A, then how much did C score?

- (1) 20
- (2) 28
- (3) 45
- (4) 62

27. A child wrote 1 to 366 serially in his note book. What is the total number of digits he had written?

- (1) 366
- (2) 732
- (3) 990
- (4) 1098

28. A 1 mm thick paper is folded into half of its size every time. What will be its approximate thickness after 50 such folding?

- (1) 100 km
- (2) 10,000 km
- (3) 1 million km (4)
- 4) 1 billion km

29. Which of the following numbers is divisible by 42?

- (1) 248769
- (2) 264852
- (3) 266748
- (4) 267848

30. On the Republic Day some chocolates were brought to distribute among 125 children in a school such that each one gets equal number of chocolates. However 25 children were absent on the occasion for which each child got 2 chocolates extra. How many chocolates were brought?

- (1) 250
- (2) 500
- (3) 750
- (4) 1000

- 31. The sum total of the ages of three brothers is 44. The eldest is 4 years older than the second, while the second's age is twice of the age of the youngest. What is the age of the second brother?
  - (1) 8
- (2) 14
- (3) 16
- (4) 20
- 32. Which among the following is the largest of the four digit numbers that is divisible by 15, 25, 40 and 75?
  - (1) 9400
- (2) 9600
- (3) 9800
- (4) 9900
- 33. Given the ratios A: B = 3:5 and B: C = 7:9, what will be the ratio of A: B: C?
  - (1) 3:5:9
  - (2) 7:9:15
  - (3) 9:15:21
  - (4) 21:35:45
- 34. Amar, Mithun and Satya started a business by investing Rs. 54,000, Rs. 81,000 and Rs. 75,000 respectively. If at the end of the year the total profit was distributed and Mithun's share was Rs. 27,000, then what was the total profit?
  - (1) Rs. 60,000
    - (2) Rs. 70,000

- (3) Rs. 80,000
- (4) Rs. 90,000
- 35. Evaluate:

$$\frac{\sqrt{0.01 + \sqrt{0.0064}}}{0.01 \times 0.3}$$

- (1) 1
- (2) 10
- (3) 100
- (4) 1000
- 36. The coordinates of two points A and B are (x, -1) and (3, 2) respectively and the distance between them is 5. What is the value of x?
  - (1) -7 or -1
- (2) -7 or 1
- (3) 7 or -1
- (4) 7 or 1
- 37. A steamer moves at a speed of 15 km/hour in still water. If it moves 30 km downstream in a river and returns back to the starting point in a total time of 4 hours and 30 minutes, then what is the speed of the stream?
  - (1) 4 km/hour
- (2) 5 km/hour
- (3) 6 km/hour
- (4) 8 km/hour
- 38. The angle of elevation of the top of a 60 metres tall tower from a point X on a level ground is 30°. What is the approximate distance between the point X and the base of the tower?
  - (1) 85 m
  - (2) 87 m
  - (3) 104 m
  - (4) 121 m

- 39. The length and breadth of a hall is 15 metres and 12 metres respectively. If the sum total of the areas of the floor and ceiling is same as the sum total of the areas of the four walls, what is the volume of the hall?
  - (1) 720 m<sup>3</sup>
  - (2) 900 m<sup>3</sup>
  - (3) 1200 m<sup>3</sup>
  - (4) 1440 m<sup>3</sup>
- 40. A fixed deposit of Rs. 50,000 in a bank earns an interest of Rs. 7,245
  @ 7% compounded annually. What is the time period of the deposit?
  - (1) 2 years
  - (2)  $2\frac{1}{2}$  years
  - (3) 3 years
  - (4)  $3\frac{1}{2}$  years
- 41. The atomicity of which of the following elements is different from the other three?
  - (1) Chlorine
  - (2) Nitrogen
  - (3) Oxygen
  - (4) Ozone
- 42. Which among the following is a compound?
  - (1) Air
  - (2) Cement

- (3) Salt
- (4) Paint
- 43. The specific gravity of which among the following metals is the highest?
  - (1) Gold
  - (2) Lead
  - (3) Mercury
  - (4) Silver
- 44. Which of the following quantum numbers distinguishes the orbitals available within a subshell of an atom?
  - (1) Azimuthal quantum number
  - (2) Magnetic quantum number
  - (3) Principal quantum number
  - (4) Spin quantum number
- 45. In the Modern Periodic Table which of the following blocks of elements are strong reducing agents?
  - (1) d-block elements
  - (2) f-block elements
  - (3) p-block elements
  - (4) s-block elements
- 46. Which of the following compounds has dative bonding?
  - (1) Ammonia
  - (2) Lithium Fluoride
  - (3) Magnesium Sulfide
  - (4) Sodium Chloride