1. Find the next term in the following series.
   2, 9, 28, 65, 126......
   (A) 215
   (B) 219
   (C) 217
   (D) None of the above
   Answer - C

2. One evening before sunset two friends Sonal and Raju were talking each other face to face. If Raju’s shadow was exactly to his right. Which direction was Sonal facing?
   (A) North
   (B) East
   (C) South
   (D) West
   Answer - C

3. A man walks 5 meters straight and then 10 meters to the right. After this he continuously turns left and every time walks 10, 5 and 10 meters respectively. How far is he now from his starting point?
   (A) 10 meters
   (B) \(5\sqrt{2}\) meters
   (C) \(5\sqrt{3}\) meters
   (D) \(3\sqrt{5}\) meters
   Answer - B
4. I am facing north. I turn 90° in the clockwise direction and then 135° in the same direction and then 270° anti clockwise. Which direction am I facing now?
   (A) South - West
   (B) South
   (C) West
   (D) North - West

Answer - D

4. मे उत्तर की ओर मुंह करके खड़ी हूँ घड़ी की सुई की दिशा में पहले 90° घूम गई पुनः उसी दिशा में 135° घूम गई और बाद में घड़ी की सुई के विपरीत दिशा में 270° घूमने पर में किस दिशा में मुंह करके खड़ी हूँ?
   (A) दक्षिण–पश्चिम
   (B) दक्षिण
   (C) पश्चिम
   (D) उत्तर–पश्चिम

Answer - D

5. Consider the following chart:

   Number of girls in a school
   Number of Boys in a school

What part of seats are vacant in the school?
   (A) $\frac{3}{8}$ part
   (B) $\frac{5}{8}$ part
   (C) $\frac{7}{8}$ part
   (D) None of the above

Answer - B

5. निम्नलिखित चार्ट पर विचार करें:

   एक स्कूल में लड़कियों की संख्या
   एक स्कूल में लड़कों की संख्या

स्कूल में सीटेस का कितना भाग रिक्त है?
   (A) $\frac{3}{8}$ भाग
   (B) $\frac{5}{8}$ भाग
   (C) $\frac{7}{8}$ भाग
   (D) उपरोक्त में कोई नहीं

Answer – B
6. Manisha is at 27th rank from top in a merit list of 43 students. What is her rank from the other side?

(A) 10th
(B) 15th
(C) 17th
(D) 16th

Answer – C

7. Find the term in place of ‘?’.

(A) 241
(B) 210
(C) 425
(D) 184 Answer – D
8. Akash, Brajesh and Charu go for a dinner. Each orders either Paneer Tikka or Roasted chicken.

(a) If Akash orders Paneer Tikka then Brajesh orders what Charu had ordered.

(b) If Brajesh orders Paneer Tikka then Akash orders the dish that Charu doesn’t order.

(c) If Charu orders Roasted chicken then Akash orders the dish that Brajesh ordered.

Who among the three always orders the same dish?

(A) Akash
(B) Brajesh
(C) Charu
(D) None of these

Answer – A

8. आकाश, ब्रजेश और चारू तीनों शाम के खाने पर साथ गये। प्रत्येक ने पनीर टिक्का या रोस्टेड चिकन का ऑर्डर दिया।

(a) यदि आकाश पनीर टिक्का का ऑर्डर देता है तो ब्रजेश वही ऑर्डर देता है जो चारू ने ऑर्डर दिया।

(b) यदि ब्रजेश पनीर टिक्का का ऑर्डर देता है तो आकाश वह ऑर्डर देता है जो चारू ऑर्डर नहीं देता है।

(c) यदि चारू रोस्टेड चिकन ऑर्डर करता है तो आकाश वह ऑर्डर करता है जो ब्रजेश ऑर्डर करता है।

तीनो में किसने, हमेशा समान डिश ऑर्डर की है?

(A) आकाश
(B) ब्रजेश
(C) चारू
(D) इनमे से कोई नहीं

Answer – A

9. In a birthday party of a baby boy Pratik, 40 persons kissed him and 25 persons shake hand with Pratik. 10 persons kissed as well as Shake hand with him. How many persons are there in a party?

(A) 25
(B) 55
(C) 75
(D) 35

Answer – B

9. एक छोटे लड़के प्रतिक की जन्मदिन पार्टी में 40 लोग ने उसे चुम्बन किया और 25 लोग ने उसके हाथ मिलाया, 10 लोग ने चुम्बन भी किया और हाथ भी मिलाया, जबाइये पार्टी में कितने लोग आये थे?

(A) 25
(B) 55
(C) 75
(D) 35

Answer – B
10. The reflex angle between the hands of the clock at 10 : 25 is:

(A) 180°

(B) 197 1° / 2

(C) 195 3° / 4

(D) 190°

Answer – B

11. Which of the following graph shows relationship between the pressure and volume of a gas?

(A)

(B)

(C)

(D) Data Insufficient

Answer – B
12. If $a + b$ means $a - b$
   $a - b$ means $a \times b$
   $a \times b$ means $a + b$
   $a \div b$ means $a + b$

Which of the following statement gives value 8?

(A) $1 + 2 - 6 \times 3 \div 8$
(B) $1 - 2 + 6 \times 3 \div 8$
(C) $1 - 2 \times 6 + 3 \times 8$
(D) None of these

Answer – B

13. Fill in the blank space in the following table:

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(A) 22
(B) 23
(C) 24
(D) 25

Answer – D
14. Read the following two statements and two conclusions and decide which of the conclusions logically follow the given statements: Answer – D

Statements: All good athletes win.
All good athletes eat well.

Conclusions I: All those who eat well are good athletes.
II: All those who win eat well.

(A) Only conclusion I follow.
(B) Only conclusion II follow.
(C) Both conclusions I and II follow.
(D) Neither conclusion I nor II follows.

15. If square stands for hard working, circle stands for employed, the triangle stands for rural and rectangle stands for intelligent. Study the following figure and answer the following questions:

Rural hard working people who are neither employed nor intelligent are indicated by region:

(A) 6
(B) 5
(C) 3
(D) 4  Answer – C

Answer – D
16. If \( a + b \) means a is daughter of b
   \( a - b \) means a is husband of b
   \( a \times b \) means a is brother of b

   What does the relation \( p \times q - r \) show?
   (A) \( p \) is son-in-law of \( r \)
   (B) \( p \) is brother of \( r \)
   (C) \( r \) is wife of \( p \)
   (D) None of these

   Answer – D

17. If South-East becomes North. Then in the same way what will West become?
   (A) South-West
   (B) East
   (C) North-West
   (D) South-East

   Answer – D

18. Pointing to a photograph, Vandana says, “She is the elder daughter of my mother’s husband”. How is person in photograph is related to Vandana?
   (A) Sister
   (B) Mother
   (C) Sister in law
   (D) None of these

   Answer – A

16. यदि \( a + b \) का मतलब है a, b की बेटी है
   \( a - b \) का मतलब है a, b का पति है
   \( a \times b \) का मतलब है, a, b का भाई है

   तो \( p \times q - r \) सम्बन्ध दर्शाता है:
   (A) \( p, r \) का दामाद है।
   (B) \( p, r \) का भाई है।
   (C) \( r, p \) की पति है।
   (D) इनमे से कोई नहीं

   Answer – D

17. यदि दक्षिण-पूर्व, उत्तर बन जाये तो उसी दिशा में पश्चिम दिशा क्या बनेगी?
   (A) दक्षिण-पश्चिम
   (B) पूर्व
   (C) उत्तर-पश्चिम
   (D) दक्षिण-पूर्व

   Answer – D

18. किसी तस्वीर की ओर देखकर वन्दना ने कहा ”वह मेरी माँ के पति की बड़ी बेटी है”, तो तस्वीर के व्यक्ति ओर वन्दना के बिच क्या सम्बन्ध है?
   (A) बहन
   (B) माँ
   (C) ननद
   (D) इनमे से कोई नहीं

   Answer – A
19. Which of the following number is different from others?
(A) 41
(B) 61
(C) 85
(D) 115  Answer – D

20. If $\div$ means $+$
   $\times$ means $-$
   $+$ means $\times$
   $-$ means $\div$
   $8 - 2 \div 10 + 2 \times 6 = ?$
   (A) 12
   (B) 14
   (C) 16
   (D) 18  Answer – D

21. What is the next term in the following sequence?
   1, 5, 14, 30, 55, ____ ?
   (A) 91
   (B) 92
   (C) 93
   (D) None of the above  Answer – A

22. Which region represents young, educated and unemployed persons?
   (A) 1
   (B) 2
   (C) 3
   (D) 4  Answer – A
23. Find the missing term:
3 A 3; 6 D 7, ____, 72 V 21
(A) 18 G 12
(B) 20 G 13
(C) 18 G 13
(D) None of the above  Answer – C

24. Find the wrong term in the following sequence:
2, 4, 8, 4, 8, 16, 6, 12, 26, 8, 16, 32.
(A) 16
(B) 26
(C) 32
(D) None of the above  Answer – B

25. How many among the following is neither educated nor player but is male and shopkeeper?

<table>
<thead>
<tr>
<th>Shopkeepers</th>
<th>Players</th>
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</table>

(Male)

(Educated)

(A) 4
(B) 6
(C) 12
(D) 11  Answer – C
26. Which one of the following four logical diagrams represents correctly the relationship between Tenis players, Cricket players, Students?

(A)  

(B)  

(C)  

(D)  

Answer – B

27. If

CAT = 25
GET = 33
DOG = 27

Then AWE = ?

(A) 28  

(B) 29  

(C) 30  

(D) None of the above  

Answer – C

28. Count the number of cubes in the following figure:

(A) 92  

(B) 87  

(C) 89  

(D) 90  

Answer – D
29. Find the missing term in the following diagram:

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(A) 5  
(B) 4  
(C) 6  
(D) None of the above  **Answer – B**

30. What is the number opposite to 5 in the dice position given below?

(A) 1  
(B) 2  
(C) 3  
(D) 6  **Answer – B**
31. Select the one which is different from others:

(A) CE
(B) GK
(C) MQ
(D) SX  Answer – D

32. How many triangles are there in the figure?

(A) 15
(B) 17
(C) 19
(D) 20  Answer – C

31. निम्नलिखित में अन्य से भिन्न का चयन करो:

(A) CE
(B) GK
(C) MQ
(D) SX  Answer – D

32. चित्र में कितने त्रिभुज हैं बताइए:

(A) 15
(B) 17
(C) 19
(D) 20  Answer – C
33. The product of two numbers is 97461 and their greatest common divisor is 21 then their least common multiple is

(A) 4461
(B) 4641
(C) 4861
(D) None of above

Answer – B

34. A car travels a distance $d$ on a straight road in two hours and then returns to the starting point in next three hours. Its average speed is

(A) $\frac{d}{5}$
(B) $\frac{d}{6}$
(C) $\frac{2d}{5}$
(D) $\frac{5d}{6}$

Answer – C
35. If \( d = \gcd(a, b) \), then \( \gcd\left(\frac{a}{d}, \frac{b}{d}\right) = \)

(A) 1
(B) \( b \)
(C) 2
(D) \( d \)

Answer – A

36. A person purchase a scooter at certain cost. After two years he sells it at 20% loss. If he had sold it for \( \text{₹} 4,000 \) more he would have got 20% profit. What was the purchase of scooter ?

(A) \( \text{₹} 10,000 \)
(B) \( \text{₹} 20,000 \)
(C) \( \text{₹} 8,000 \)
(D) None of above

Answer – A

37. The value of

\[
\frac{(1.6)^{\frac{1}{2}} \times (2.7)^{\frac{1}{3}}}{10^{\frac{1}{6}}}
\]

(A) 1.2
(B) \( \frac{12}{\sqrt{10}} \)
(C) \( \frac{12}{10^{\frac{1}{3}}} \)
(D) None of above

Answer – A
38. Which of the following is least ratios?

\[
\frac{25}{7}, \frac{37}{3}, \frac{67}{21}, \text{ and } \frac{47}{15}
\]

(A) \(\frac{25}{7}\)

(B) \(\frac{37}{3}\)

(C) \(\frac{67}{21}\)

(D) \(\frac{47}{15}\)

Answer – D

39. Complete the following series:

BZ, HT, NN, ?, ZB

(A) LF

(B) SX

(C) TH

(D) TI

Answer – C

40. Choose the correct alternative to complete the following series:

abca_bcaab_ca_bbc_

(A) ccaa

(B) abac

(C) bbbaa

(D) abba

Answer – B
Select the alternative box which can be formed by folding the sheet ‘A’

(A)  
(B)  
(C)  
(D) None of above  Answer – D

Answer – D
42. Ram borrows a certain sum of money from a bank at 10% per annum at compound interest. The entire debt is discharged in full by Ram on payment of two equal amounts of ₹ 1,000 each, one at the end of the first year and the other at the end of the second year. What is the approximate value of the amount borrowed by him?

(A) ₹ 1,852  
(B) ₹ 1,736  
(C) ₹ 1,694  
(D) ₹ 1,792 Answer – B

43. In a school there is ratios of 4 : 3 between boys and girls. If the number of girls is in increased by 10% their number is 363. What is the total number students in school now?

(A) 753  
(B) 803  
(C) 770  
(D) None of above Answer – C
44. What is the average of first thirty natural numbers?

(A) 20.5
(B) 15.5
(C) 7.75
(D) None of above  Answer – B

45. A bottle is full of dettol. One fourth of the dettol is taken out and water is added this process is repeated thrice. What is the ratio of dettol and water after third time?

(A) 28 : 36
(B) 25 : 39
(C) 15 : 49
(D) None of above  Answer – D

46. What will be next number in the following sequence?

2, 10, 30, 68, ....

(A) 130
(B) 115
(C) 125
(D) None of above  Answer – A

47. What is the average of first thirty natural numbers?

(A) 20.5
(B) 15.5
(C) 7.75
(D) None of above  Answer – B

48. A bottle is full of dettol. One fourth of the dettol is taken out and water is added this process is repeated thrice. What is the ratio of dettol and water after third time?

(A) 28 : 36
(B) 25 : 39
(C) 15 : 49
(D) None of above  Answer – D

49. What will be next number in the following sequence?

2, 10, 30, 68, ....

(A) 130
(B) 115
(C) 125
(D) None of above  Answer – A
47. Find the next term in the following sequence.
9A, 11B, 15C, 23D, ...
(A) 35E
(B) 37E
(C) 39 E
(D) None of above
Answer – C

48. What will be the next figure in the following sequence?

Answer – B

Answer – C
49. If ‘a’ means +, ‘b’ means −, ‘c’ means × and ‘d’ means ÷ then the value of 
(8 c 7) c (7 a 5) b (6 d 3) d (3 b 2)
(A) 650
(B) 375
(C) 670
(D) None of the above  Answer – C

50. What number will come in the blank space in the following diagram?

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(A) 21
(B) 19
(C) 17
(D) None of above  Answer – C

51. What will be next term in the following sequence
H, S, F, U, D, ?

(A) W
(B) Y
(C) O
(D) None of above  Answer – A