



## Indian Women Scientists' Association

Vashi, Navi Mumbai

### IWSA Ganit Pratiyogita 2025

**Class- VI CBSE**

**Time: 2.00 pm – 3.30 pm**

**Date: 30<sup>th</sup> November, 2025**

**Total Marks: 100**

### Instructions

1. There is a total of 50 questions. Each question carries 2 marks. There is no negative marking.
2. Each question has been given four optional answers a, b, c, and d. On the given answer sheet write **only one option** (either a, b, c, or d) which according to you indicates the correct answer to the question asked.
3. Writing more than one option as an answer to any question in the answer sheet, will give you a zero mark for that Question.
4. Use only a blue pen to make any entry on the answer sheet.
5. You will not be allowed to leave the examination hall without signing and submitting your answer sheet.
6. The blank paper provided can be used for your rough calculations. This is not to be submitted. You may take the question paper and rough sheet home after the exam.
7. Use of Calculators, or any other electronic gadgets, during the exam is strictly prohibited.

### Questions

1. The sum of the place values of 6's in 565062 is \_\_\_\_  
a) 60060                      b) 60600                      c) 600060                      d) 60606
2. Write the successor and the predecessor of the greatest five -digit number  
a) 10000, 9999              b) 10000, 99998              c) 100000, 99998              d) 100000, 99999

3. Find the value of n from

$$3^0 - 4^1 + (27^{1/3}) + (81)^{1/2} \times 3^1 = 3^n$$

- a) 0                      b) 1                      c) 2                      d) 3

4. On a number line, which of the following statements is TRUE?

- a) -2.5 is to the right of -1.0                      b) the distance between -1.5 and 3.25 is 4.75 units  
c) -7.5 is 4.25 units to the left of 3.25                      d) the distance between -5.5 and -3.5 is 9 units

5. There are 3 oil tanks containing 51 litres, 136 litres and 289 litres respectively. What is the maximum capacity of the container that can be used to completely empty the oil in these tanks?

- a) 17                      b) 13                      c) 156                      d) 476

6. If P means +, Q means  $\times$ , T means  $\div$  and V means -, then find the value of  $18P12T4Q8V10$

- a) 50                      b) 32                      c) 52                      d) 12

7. Sudha travels 8.05 km to reach her school. On the way, she travels 7200 m by bus to pick up Reshma, then walks another 0.075 km to reach Kalpana's house, and then takes the bicycle to travel the remaining distance to school. The distance she travels on bicycle is:

- a) 1.755 km                      b) 750 m                      c) 0.075 km                      d) 775 m

8. If Rahul has notes of Rs.10 denomination and Rs.100 which is 20 more in number. He wants to deposit Rs.4500 in total in a bank. Then, the correct linear equation representing the situation is:

- a)  $10x + 100(x+20) = 4500$                       b)  $10x + 100 \times 20 = 4500$   
c)  $10x + 100(x-20) = 4500$                       d) None of these

9. A farmer has some cows and some birds. If total number of heads are 12 and total number of legs are 40, evaluate how many cows and birds the farmer has.

- a) 8,4                      b) 6,6                      c) 4,8                      d) 5,7

10. The hands of a clock make a  $150^\circ$  angle with each other when it is:

- a) 8 o'clock                      b) 11 o'clock                      c) 7 o'clock                      d) 4 o'clock

11. Identify the number:

- i) Unit's digit returns a remainder equal to 0 when divided by 2 and 3.
- ii) Ten's digit is the ten's digit of two times the unit digit plus 3.
- iii) Hundred's digit is the unit digit of the product of the original number's unit digit with 12.

a) 256                      b) 316                      c) 216                      d) none of these

12. Pick the statement that is NOT true:

- a)  $7\frac{4}{5}$  is the same as 780 %
- b) 0.0019 km = 190 cms
- c) One crore and thirty - five is 10000035
- d) 10 grams + 401kgs = 40110gms

13. Simplify:  $(-\frac{4}{5} + \frac{7}{4} - 1\frac{5}{6}) =$

a)  $\frac{53}{60}$                       b)  $1\frac{3}{4}$                       c)  $-\frac{53}{60}$                       d)  $-\frac{43}{60}$

14. Suman and Pramila invest in a business in the proportion 2:3. They make a profit of Rs 1,500/-. Pramila: Suman share of profit is:

a) 1000: 500                      b) 900: 600                      c) 600: 900                      d) 800: 700

15. The least number divisible by each of the numbers 15, 20, 24 and 32 and leaving a remainder of 7 is:

a) 967                      b) 487                      c) 367                      d) 643

16. If  $\frac{1}{3} + \frac{1}{2} + \frac{1}{x} = 4$ , then  $x = ?$

a)  $\frac{5}{18}$                       b)  $\frac{6}{19}$                       c)  $\frac{18}{5}$                       d)  $\frac{24}{11}$

17. Medicine is packed in boxes, each such box weighing 4kg 500g. How many such boxes can be loaded in a van which cannot carry beyond 800kg?

a)450                      b)255                      c)177                      d)200

18.The sides of a rectangle are in the ratio 5: 4. If its area is  $320 \text{ cm}^2$ , then its length is:

a) 40 cm                      b) 20 cm                      c) 30 cm                      d) 60 cm

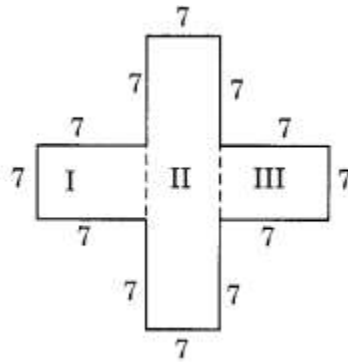
19. If the LCM of two numbers is 24, which number cannot be its HCF.

a) 4                      b) 6                      c) 12                      d) 15

20. The length of a rectangle is three times of its width. If the length of the diagonal is  $8\sqrt{10} \text{ m}$ , then the perimeter of the rectangle is

a)  $15\sqrt{10} \text{ m}$                       b)  $16\sqrt{10} \text{ m}$                       c)  $24\sqrt{10} \text{ m}$                       d) 64 m

21. The area of the figure given below is (The measures are given in centimetres):



a)  $245\text{cm}^2$

b)  $47\text{cm}^2$

c)  $147\text{cm}^2$

d)  $576\text{cm}^2$

22. Express 752 in Roman numerals:

a) LDCCII

b) LIICDC

c) DCCLII

d) LIIDCC

23. If 12 kg of rice cost Rs 600/-, how much rice can you buy with Rs 990/-

a) 18.8 kg

b) 18 kg

c) 15.8 kg

d) 19.8 kg

24. Identify the missing number of the series 2, 7, 17, 37, \_?\_

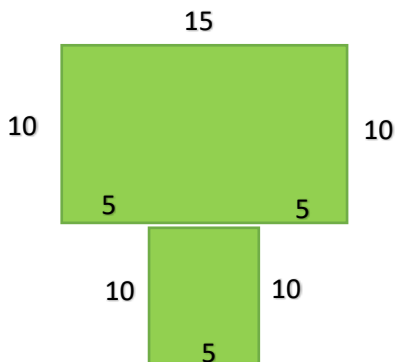
a) 75

b) 175

c) 77

d) none of these

25. How much fencing would be required to fence the following T shaped playground?



a) 65 ft

b) 60 ft

c) 75 ft

d) None of the above

26. A and B can complete a job working together in 6 days. If A alone can complete the job in 9 days, how long would it take for B alone to complete the job?

a) 15 days

b) 16 days

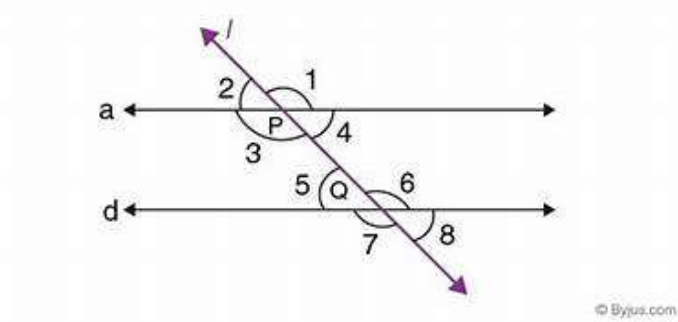
c) 18 days

d) none of these

27. If a basket contains 250 lemons of 28gms each, 700 oranges of 50 gms each and 200 guavas of 70 grams each, the ratio of the weights of lemons: oranges: guavas is
- a) 5:14:4                      b) 1:5:2                      c) 2:3:1                      d) None of these
28. A piece of string is 60 cms long. What will be the length of each side in cms if it is used to construct i) equilateral triangle ii) regular hexagon iii) square
- a) 20, 10, 15                      b) 15, 20, 10                      c) 10, 20, 15                      d) None of these
29. Express the following distances in Km: i) 15 cms ii) 27 m iii) 540 m iv) 1478 m
- a) 0.0015, 0.27, 0.540, 1.478                      b) 0.15, 0.27, 0.540, 1.478
- c) 0.00015, 0.27, 5.40, 1478                      d) 0.00015, 0.027, 0.54, 1.478
30. Find the statement that is true:
- a)  $2\frac{4}{5}$  is the same as  $\frac{14}{5}$                       b)  $2\frac{7}{9}$  is the same as  $\frac{24}{9}$
- c)  $3\frac{11}{12}$  is the same as  $\frac{33}{12}$                       d)  $4\frac{5}{9}$  is the same as  $\frac{30}{9}$
31. 15 equal sized cakes were distributed as follows: In group A, 3 cakes were divided among 5 children; In Group B, 5 cakes were divided among 7 children and in Group C, 7 cakes were divided among 10 children. Considering the size of the cake received by each child, which statement is true:
- a) A Group A child received the biggest share
- b) A Group C child received the biggest share
- c) A Group B child received bigger than Group C but smaller than Group A child
- d) None of the above
32. If Rajesh travels  $\frac{7}{8}$  km, Roy travels  $\frac{5}{6}$  km, and Rohit travels  $\frac{4}{5}$  km, then in terms of travel the following statement is true:
- a) Rohit travels the maximum distance
- b) Rajesh travels the maximum distance
- c) Roy travels less than Rohit and more than Rajesh
- d) Rajesh travels less than Roy but more than Rohit

33. In the given figure select which statement is NOT true

- a)  $\angle 3 + \angle 5$  is equal to two right angles      b)  $\angle 1 = \angle 3$   
 c)  $\angle 3 = \angle 6$       d)  $\angle 5 + \angle 8 = 90^\circ$



34. The corresponding numeral for  $7 \times 100000 + 5 \times 10000 + 0 \times 1000 + 0 \times 100 + 9 \times 10 + 1 \times 1$  is:

- a) 7050091      b) 750091      c) 7500091      d) 750901

35. If the weight of the triangle is  $\frac{1}{3}$  of the square and the weight of the circle is double of the triangle, then the weight of each of them.



- a) Circle- 12, Triangle-6, Square- 15      b) Circle- 12, Triangle-6, Square- 18  
 c) Circle- 18, Triangle-6, Square- 12      d) None of these

36. A crate carrying bags of apples weighs 129kg 150 gms. If each bag of apples weighs 2kg 50gms, how many bags of apples are there in the bag?

- a) 63      b) 53      c) 37      d) 65

37. Which of the points -0.1 and 0.1 lie between (- 0.2) and (1.0) on the number line

- a) only -0.1      b) only 0.1      c) both -0.1 and 0.1      d) None

38. If  $a:b = 5:4$  and  $b:c = 3:2$  then  $a:b:c$  is-

- a) 12:13:15      b) 15:12:10      c) 10:12:15      d) none of these

39. Pick out the statement that is true

- a) Five tens and 2 hundredths is 5.2      b) 5 grams can be written as 0.005 kg  
c) 27cms is 0.0027km      d)  $0.008 - 0.508 = 0.500$

40. A rectangular box has dimensions 18cm x 12cm x 9cm. It is completely filled with cubes of 3cm. How many cubes can fit inside the box? Also, how much space will be left?

- a) 45 cubes and  $72 \text{ cm}^3$  space will be left  
b) 72 cubes and no space will be left  
c) 32 cubes and  $45 \text{ cm}^3$  will be left  
d) None of these

41. To meet my friend staying in a multi-storeyed building, I went from car parking in the basement 2<sup>nd</sup> floor (two floors below the ground floor) 13 floors up, but found the address was wrong and came 5 floors down to the correct flat. So, which floor does my friend live?

- a) 10<sup>th</sup>      b) 6<sup>th</sup>      c) 7<sup>th</sup>      d) 4<sup>th</sup>

42. Gita has some chocolates gifted by her grandparents. Her father gave her 3 times that number and she and her 3 friends shared them. How many did each one get?

- a) Same as what her grand-parents gave      b) twice what they gave  
c) half of what they gave      d) half of what her father gave

43. For a school function, two pieces of yellow ribbons were bought of 24 and 40 m each. If they are to be cut into pieces of equal lengths, what will be the maximum possible length of each piece?

- a) 4m,      b) 10 m,      c) 8 m,      d) 16 m.

44. Sheetal was asked to buy lace just enough to fit the border of a rectangular table cloth, of 2.5 m length and 1.5 m width. Later it was found that the available table cloth was of square shape, but the lace she bought fitted exactly. So, what is the length of each sides of the square bedsheet?

- a) 1.75m      b) 2m      c) 2.25 m      d) none of these

