

KENDRIYAVIDYALAYA SANGATHAN, REGIONAL OFFICE, LUCKNOW
SESSION-ENDING EXAMINATION (2022-23)

SUBJECT: MATHEMATICS

MAX. MARKS: 60

CLASS: VI


















DURATION: - 2HR: 30MIN

General Instructions:

- (i) All the questions are compulsory.
- (ii) The question paper consists of 30 questions divided into 4 sections A, B, C, and D.
- (iii) **Section A** comprises of 15 questions of **1 mark** each. **Section B** comprises of 5 questions of **2 marks** each. **Section C** comprises of 5 questions of **3 marks** each. **Section D** comprises of 5 questions of **4 marks** each.
- (iv) Internal choices are provided in 2 questions of section B, 2 questions of section C and 2 questions of section D.
- (v) Use of calculator is not permitted.

SECTION A

1. Which among the following is not a factor of 24?
(a) 4 (b) 6 (c) 12 (d) 7
2. $30 + 6 + \frac{2}{10}$ can be written in decimal form as?
(a) 3062 (b) 362 (c) 36.2 (d) none of these
3. Fill in the box with the correct symbol: 0.5 [] 0.005
(a) $>$ (b) $<$ (c) $=$ (d) none of these
4. The ratio of 98 to 63 is _____
(a) 14:5 (b) 9:14 (c) 5:14 (d) 14:9
5. The number of mangoes purchased for a home during February is.
(a) 20 (b) 25 (c) 30 (d) 15

Months	Number of Mangoes  = 5 Mangoes
JANUARY	  
FEBRUARY	    
MARCH	   
APRIL	   

6. _____ pencils can be bought for Rs. 30, if cost of dozen pencils is Rs. 30.
(a) 12 (b) 6 (c) 24 (d) 36

7. If the perimeter of a square is 16cm then its area is

- (a) 64 cm^2 (b) 81 cm^2 (c) 121 cm^2 (d) none of these

8. The area of a rectangle is 40 cm^2 . If its breadth is 4cm then find its length.

- (a) 14cm (b) 10 cm (c) 20 cm (d) none of these

9. Which is the solution of equation $X+4=6$.

- (a) $X=2$ (b) $X=3$ (c) $X=4$ (d) $X=6$

10. Perimeter of an equilateral triangle whose each side is X unit is

- (a) $3X$ (b) $3-X$ (c) $3/X$ (d) $3+X$

11. Write in words 5.008

- (a) Five point zero zero eight (b) five point eight (c) fifty eight (d) none of these

12. Write expression for "P multiplied by -5".

- (a) $-5+P$ (b) $P-5$ (c) $-5P$ (d) none of these

13. Fill the blank: $\frac{15}{18} = \frac{?}{6}$

- (a) 6 (b) 5 (c) 8 (d) 9

14. There is a rectangular sheet whose length is 14cm and breadth is 4 cm shorter than length. Find area of sheet.

- (a) 1400 cm^2 (b) 104 cm^2 (c) 114 cm^2 (d) 140 cm^2

15. Following table shows the number of bicycles manufactured in a factory during the year 1998 to 2002.

In which year were the maximum numbers of bicycles manufactured?

YEARS	NUMBER OF BYCYCLES
1998	800
1999	600
2000	900
2001	1100
2002	1200

- (a) 1998 (b) 2001 (c) 2002 (d) 2000

SECTION B

16. Using divisibility rule check the divisibility of 1258 by 6.

OR

Find the prime factor of 144.

17. Find the area in sq. meter of a piece of cloth 1meter 25 cm wide and 2 meter long.

OR

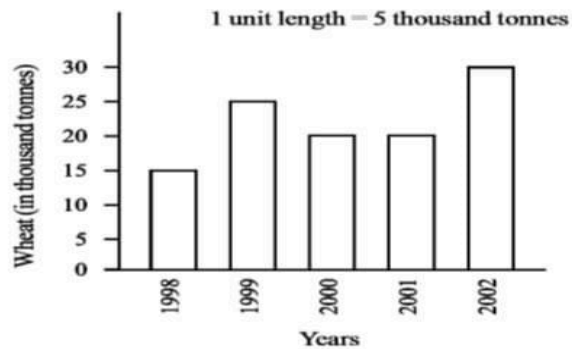
Find the area of a square whose side is 1.6 cm.

18. What is the length of wooden strip required to frame a photograph of length and breadth 32cm and 21cm

respectively.

19. Check if these numbers are in proportion? 15, 45, 40, 120

20. The bar graph given alongside shows the amount of wheat purchased by government during the year 1998-2002. Read the bar graph and write down your observations. In which year was:



- (a) The wheat production maximum (b) the wheat production minimum

SECTION -C

21. Take Sarita's present age to be Y years

- (a) What will be her age 5 years from now?
(b) What was her age 3 years back?

22. Samson travelled 5km 52m by bus, 2km 265m by car and the rest 1km 30m he walked. How much distance did he travel in all ?

23. There are 45 persons working in an office. If the number of females is 25 and the remaining are males.

Find the ratio of

- (a) The number of females to number of males.
(b) The number of males to total number of persons.

OR

In a class of 80 students 45 like football, 12 like tennis and remaining like cricket.

- (a) Find the ratio of students like football to cricket.
(b) Find the ratio of students like tennis to cricket.

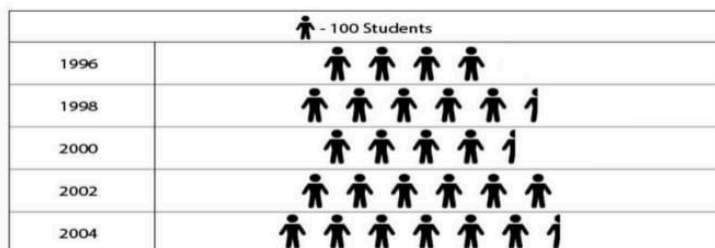
24. How many tiles whose length and breadth are 12cm and 5cm respectively will be needed to fit in a rectangular region whose length and breadth is 100 cm and 144 cm respectively?

25. Determine the smallest three digit number which is exactly divisible by 6,8,12?

OR

Find the HCF of 72 and 35.

SECTION D



26. From the above pictograph answer the following questions which represents the number of students in different year of a school.

- (a) How many symbols represent the number of students in the year 2002?
- (b) Find the total number of students in the year 1996?

27. Ruby has a table cloth that fits on her table top measuring 1.5m x 1m. The cloth covers the table top completely with 10 cm of cloth hanging down over each long edge, but no cloth hanging down over the short edges.

- (a) Find the perimeter of the table top?
 - (b) Find the area of table top?
28. Anish and Anoop are two very good friends. One day they decided to play cricket. Anish made 42 runs in 6 overs and Anoop made 63 runs in 7 overs. Based on this, answer the following questions.
- (a) How many runs did Anoop make in 1 over?
 - (b) Who made more runs per over ?

OR

Cost of 5 kg of wheat is Rs 30.50.

- (a) What will be the cost of 8 kg of wheat?
- (b) What quantity of wheat can be purchased in Rs 61?

29. Complete the table and by inspection of table find the solution of equation $M+4=6$

M	1	2	3
M+4			

OR

Give expressions for the following

- (a) 7 added to p
 - (b) 7 subtracted from p
 - (c) p multiplied by 7
 - (d) p divided by 7
30. Urmila's school is at a distance of 5km 350m from her house. She has to travel by bus and by foot. She travels 1km 70m on foot and rest by bus. Based on this, answer the following questions.
- (a) How much distance does she travel by bus?

(b) What is the total distance between Urmila's house and school?