PT4/ANNUAL EXAMINATION, 2022-23

MATHEMATICS

Time - 3 hrs. **Class – VI (Set-A)** **M.M. – 80**

Name of the student _____ Section ____ Date - 15.02.2023 (Wednesday)

GENERAL INSTRUCTIONS:

- The question paper is divided into 4 sections A, B, C & D.
- Section A comprises 14 questions (Q.1 to Q.14). All the questions are compulsory in this section.
- Section B comprises 8 questions (Q.15 to Q.22). All the questions are compulsory in this section.
- Section C comprises 6 questions (Q.23 to Q.28). Attempt **any 5** of them.
- Section D comprises 8 questions (Q.29 to Q.36). Attempt **any 6** of them.
- Draw neat diagrams wherever needed and show the required calculations in fair.

SECTION – A (14x1=14)

Choose the correct option.

Q1. An improper fraction is always

(a) greater than1 (b) less than 0

(c) having denominator greater than numerator (d) less than one

Q2. What is 5 tenths and 3 hundredths equal to

(a) 3.5 (b) 0.53 (c) 0.35 (d) 53

Q3. A data obtained in original form

(a) Organisation (b) Raw data (c) Recording (d) Frequency

Q4 If there are 40 oranges in one box. How many oranges are there in 'x' boxes

(a) $40+x$ (b) $40 - x$ (c) $40x$ (d) $40/x$

Q5. Perimeter of a rectangle

a) length × breadth b) 4 × length of its side c) 2 × (length + breadth) d) length + breadth

Q6 The triangle with no line of symmetry

(a) Equilateral triangle (b) Scalene triangle (c) Isosceles triangle (d) all of the above

Q7. The solution of the equation 10y = 80 which satisfies the equation is

(a) y = 10 (b) y = 8 (c) y = 5 (d) y= 14

Q8. The number of lines of symmetry in a circle

(a) Infinite (b)1 (c) 0 (d)3

Q9. We denote the ratio by the symbol

(a) **:** (b) **÷** (c) **%** (d) **×**

Q10 The distance around the boundary of a closed figure is its

(a) Perimeter (b) Area (c) Diagonal (d) Side

Fill in the blanks:

Q11. If the radius of a circle is 3 cm, then the diameter of the circle is _____.

Q12. Write as decimals : Six hundred point eight _____.

Q13. The tally mark 𝍸 shows frequency _____.

Q14. Fractions with same denominator are called _____ fractions.

SECTION - B (8×2=16)

Q15. Express as mixed fraction $\frac{20}{3}$.

Q16. Express 75paise as rupees using decimals.

Q17. Find the perimeter of a regular pentagon with each side measuring 3 cm.

Q18. Find the number of lines of symmetry in each of the following shapes.

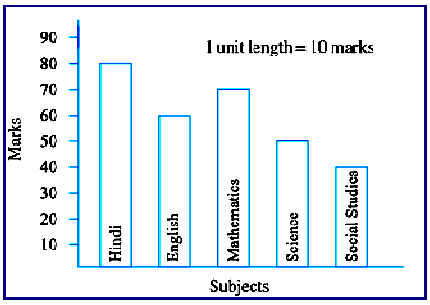
(a) 

(b) 

Q19. Observe this bar graph which shows the marks obtained by Ram in half-yearly examination in different subjects. Answer the given questions.

(a) What information does the bar graph give?

(b) Name the subject in which Ram scored maximum marks.



Q20. Students are marching in a parade. There are 5 students in a row. What is the rule which gives the number of students, given the number of rows? (Use n for the number of rows.)

Q21. Draw a line segment AB of length 4.5 cm.

Q22. Find the ratio of 81 to 108

SECTION – C

(Attempt ANY FIVE questions) (5x4=20)

Q23. Abhishek had Rs 7.45. He bought toffees for Rs 5.30. Find the balance amount left with Abhishek.

Q24. The length of a rectangular hall is 4 meters less than 3 times the breadth of the hall. What is the length, if the breadth is b meters?

Q25. Solve : $\frac{2}{3}+\frac{4}{5}$

Q26. Consider the letters of English alphabets, A to Z. List among them the letters which have

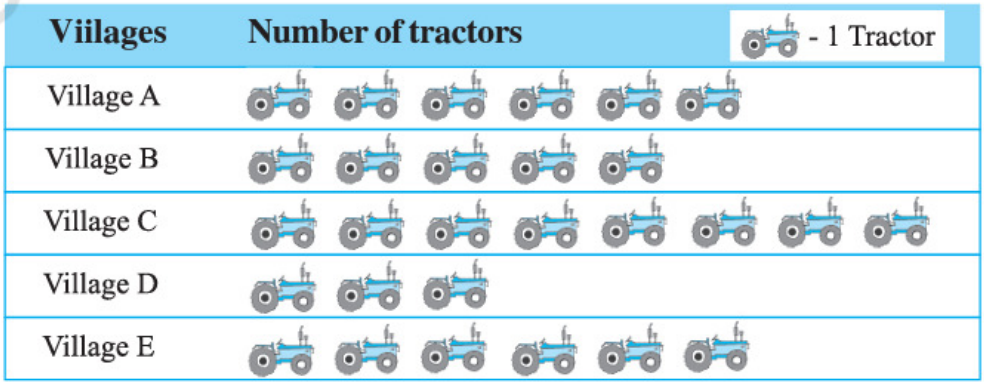
(a) Both Vertical and Horizontal lines of symmetry (b) No lines of symmetry

Q27. In a year, Seema earns Rs 1,50,000 and saves Rs 50,000. Find the ratio of

(a) Money that Seema earns to the money she saves.

(b) Money that she saves to the money she spends.

Q28. Following pictograph shows the number of tractors in five villages.



Observe the pictograph and answer the following questions.

(i) Which village has the minimum number of tractors?

(ii) Which village has the maximum number of tractors?

(iii) How many more tractors village C has as compared to village B.

(iv) What is the total number of tractors in all the five villages?

SECTION – D

(Attempt ANY SIX questions) (6×5=30)

Q29. Rahul bought 4 kg 90 g of apples, 2 kg 60 g of grapes and 5 kg 300 g of mangoes. Find the total weight of all the fruits he bought. Express in decimals.

Q30. Cost of 5 kg of wheat is Rs 91.50.

(a) What will be the cost of 8 kg of wheat?

(b)What quantity of wheat can be purchased in Rs 183?

Q31. Following table shows the monthly expenditure of Imran's family on various items.

Items	Expenditure (In Rs.)
House rent	3000
Food	3400
Education	800
Electricity	400
Transport	600
Miscellaneous	1200

Represent this data in the form of a bar graph on graph paper.

Q32. Shyam wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.

Q 33. Solve: $\frac{2}{5}+\frac{5}{6}+\frac{7}{12}$

Q34. Draw a right angle and construct its bisector.

Q35. Find the cost of fencing a square park of side 250 m at the rate of Rs.20 per metre.

Q36. Draw a line segment of length 12.8 cm. Using compass, divide it into four equal parts. Verify by actual measurement.