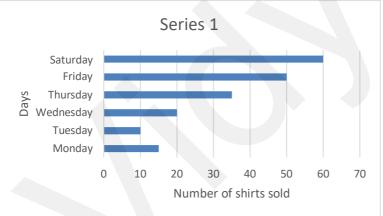
| | Mathematics – Set B | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Date Tim | | Class: VI M. M: 90 |
| | The question paper consist of 31 questions divided into four sections A, B, C and D | • |
| <u> </u> | | |
| | Section – A | |
| 01 | | 1 |
| Q1. | Express $\frac{21}{4}$ as mixed fraction. | |
| Q2. | study of the second sec | 1 |
| ~ ~ | What does this bar graph represent? | |
| Q3. | What is the perimeter of a regular hexagon of side p cm. | 1 |
| Q4. | Find the area of rectangle whose sides are 6m and 20cm. | 1 |
| ~ ~ | Section – B | |
| Q5. | Arrange 0.64 ,0.05, 0.1, 0.7, in descending order. | 2 |
| Q6. | In a school of 550 students, 250 are girls. Find the ratio of girls to boys. | 2 |
| Q7. Q8. | For the following expressions, form the statements. a) 6y-5 b) x+15 Find the cost of flooring a rectangular room of length 5cm and width 2 cm, at Rs10 | 2) per sq.cm 2 |
| Q9. | Following pictograph shows the number of tractors in 5 villages. | 2 |
| | Villages Number of tractors = 1 tractor | |
| | Village A | |
| | Village B 🗱 🗱 🗱 | |
| | Village C XX XX XX XX XX XX | |
| | Village D | |
| | Village E | |

Observe the pictograph and answer the following questions.

| | a) Which village has the minb) Which village has the manc) How many more tractorsd) What is the total no. of tractors | ximum no village C | b. of tractors?has as compared to | village B? | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------|---------------------|-------------------|--------|
| Q10. | With the same centre O, dra | w two cir | cles with radii 3cm | and 5cm. | | 2 |
| | | | Section – C | | | |
| Q11. | Construct an angle of 135° | with the u | | passes. | | 3 |
| Q12. | | | | | | |
| - | a) y is multiplied by -5 and the result is added to 18. b) 6 times x from which 4 is subtracted. c) p divided by 7. | | | | | |
| Q13. | The population of 4 major c | | | | | 2 |
| | CITYNPopulation (in lakhs) | Iumbai 120 | Kolkata 130 | Delhi 110 | Chennai 80 | 3 |
| | Draw a bar graph to illustration | | | 110 | | |
| Q14. | | | | | | 3 |
| Q15. | Cost of 105 envelopes is Rs | . 35. How | many envelopes ca | in be purchased for | : Rs. 10? | 3 |
| Q16. | A floor is 5 m long and 4 m wide. A square carpet of sides 3 m is laid on the floor. Find the area of the floor that is not carpeted. | | | | | 3 |
| Q17. | a) Draw a number line and locate $\frac{4}{5}$ on it. | | | | | |
| | b) solve $\frac{5}{6} = \frac{1}{4}$ | | | | | 1 1/2 |
| Q18. | The following are the numb months of a year: | | | | - | 3 |
| | | uary 20 | February 35 | March 25 | April 30 | |
| | Represent the details by a p | | | 20 | 50 | |
| Q19. | Subtract the difference of 118.5 and 6.492 from the sum of 169.56 and 23.59 | | | | | |
| 020 | A nices of string is 120 cm | long Who | t will be the length | of each aide if the | string is used to | |
| Q20. | A piece of string is 120 cm form:- | long. whe | at will be the length | of each side if the | string is used to | 3 |
| | a) a regular pentagon? | | b) a square? | c) a reg | ular hexagon? | - |
| | | | | | | |
| | | | Section – D | | | |
| Q21. | Draw $\angle 120^{\circ}$ and divide it into four equal parts using ruler and compasses. | | | | | 4 |
| Q22. | Vishal earns Rs15000 in 3 r a) How much will he earn in b) In how many months wi | n 6 month | | | | 2 2 |
| Q23. | Pooja runs around a square field of side 75 m, Bobby runs around a rectangular field with length 160 m and breadth 105 m. Solve and find who covers more distance? | | | | | |
| Q24. | The total weight of three pa find the weight of the third | | | | g and 18 kg15 g, | 4 |
| | | | | | | |

| Q25. | Rohit had 20 pencils, Shivani had 50 pencils and Jacky had 80 pencils. After 4 months, Rohit used up 10 pencils, Shivani used up 25 pencils and Jacky used up 40 pencils. What fraction did each use up? Check if each has used up an equal fraction of her/his pencils? | | | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------|--|--|
| Q26. | Draw a line segment of length 12.8cm. Using compasses, divide it into four equal parts. Verify by actual measurement. | | | | |
| Q27. | Determine if 12 kg, 15 kg, Rs 28, Rs 35 are in extreme term if the ratio forms a proportion. | proportion. Also, write the middle term and | 3 1 | | |
| Q28. | Match the solution of the equations:- | | | | |
| | a) x+5=25 | 1) 12 | 4 | | |
| | b) 3x-7=35 | 2) 240 | | | |
| | c) = 40 | 3) 14 | | | |
| | ⁶ d) 4b=48 | 4) 20 | | | |
| Q29. | i) Find the equivalent fraction of $\frac{3}{5}$ with | | 2 | | |
| | a) Denominator 20 b) Numerator 9 | | | | |
| | ii) Sunaina was given $1\frac{1}{2}$ piece of cake and Noor was given $1\frac{1}{3}$ piece of cake. Find the total amount of cake given to both of them? | | | | |

Q30. Observe this bar graph which shows the sale of shirts in a readymade shop from Monday to Saturday.



Now answer the following questions:

- a) What is the scale chosen on the horizontal line representing the number of shirts?
- b) On which day were the maximum number of shirts sold?
- c) On which day were the minimum number of shirts sold?
- d) How many shirts were sold on Thursday?
- Q31. Srishti gets Rs 250.75 from her mother and Rs 100 from her father as pocket money and gave 3 + 1 Rs 100.25 to charity and Rs 50.50 to a temple. How much money does she have now? What lesson do you get from this? What value is depicted by Shristi?

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