

KENDRIYA VIDYALAYA GACHIBOWLI , GPRA CAMPUS, HYD-32
SAMPLE PAPER 03 FOR HALF YEARLY EXAM (2019-20)

SUBJECT: MATHEMATICS

BLUE PRINT FOR HALF YEARLY EXAM: CLASS VI

Chapter	MCQ (1 mark)	VSA (1 mark)	SA – I (2 marks)	SA – II (3 marks)	LA (4 marks)	Total
Knowing our Numbers	1(1)	1(1)	2(1)*	3(1)	4(1)	11(5)
Whole Numbers	2(2)	2(2)	--	3(1)	4(1)	11(6)
Playing with numbers	2(2)	1(1)	2(1)	3(1)	4(1)*	12(6)
Basic Geometric Ideas	1(1)	1(1)	2(1)	3(1)* 3(1)	--	10(5)
Understanding Elementary ideas	2(2)	1(1)	2(1)*	3(1)	4(1)	12(6)
Integers	1(1)	2(2)	2(1)	3(1)*	4(1)	12(6)
Fractions	1(1)	2(2)	2(1)	3(1)	4(1)*	12(6)
Total	10(10)	10(10)	12(6)	24(8)	24(6)	80(40)

MARKING SCHEME FOR PERIODIC TEST - II

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
MCQ	1	10	10
VSA	1	10	10
SA – I	2	6	12
SA – II	3	8	24
LA	4	6	24
GRAND TOTAL			80

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SUBJECT: MATHEMATICS
CLASS : VI

MAX. MARKS : 80
DURATION : 3 HRS

General Instructions:

- (i). All questions are compulsory.
- (ii). This question paper contains 40 questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 20 questions of **1 mark** each. **Section B** comprises of 6 questions of **2 marks** each. **Section C** comprises of 8 questions of **3 marks** each and **Section D** comprises of 6 questions of **4 marks** each.
- (iv). There is no overall choice. However, an internal choice has been provided in two questions of 2 marks each, two questions of 3 marks each and two questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v). Use of Calculators is not permitted

SECTION – A

Questions 1 to 20 carry 1 mark each.

1. When 1 is subtracted from smallest 5 digit number what is the result?
(a) Smallest 4 digit number (b) Greatest 4 digit number
(c) Greatest 5 digit number (d) Smallest 5 digit number
2. Fill in the blanks to make the statement true
 $6245+(631+751)=631+\dots\dots\dots)+751$
(a) 6245 (b) 751 (c) 200 (d) 231
3. 0 divided by 6 is
(a) 6 (b) 0 (c) 1 (d) 60
4. Numbers of factors of given number are:
(a) 1 (b) 2 (c) finite (d) infinite
5. How many factors does 36 has
(a) 7 (b) 9 (c) 10 (d) 8
6. A line segment has:
(a) definite length but no end points (b) infinite length but no end point
(c) definite length and have end points (d) none of these.
7. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 3 to 9
(a) $\frac{1}{2}$ (b) $\frac{3}{4}$ (c) $\frac{1}{4}$ (d) none of these
8. Where will the hand of a clock stop if it starts at 12 and makes $\frac{1}{2}$ of a revolution, clockwise?
(a) 3 (b) 6 (c) 9 (d) none of these
9. Sum of -30 and -12 is
(a) 42 (b) -18 (c) -42 (d) 18

10. Fill in the boxes with the correct symbol: $\frac{3}{4} \boxed{\dots} \frac{2}{4}$
(a) > (b) < (c) = (d) none of these

11. Write the successor of 100199.

12. How many whole numbers are there between 32 and 53?

13. What is the HCF of two consecutive even numbers?

14. Draw rough diagrams of two angles such that they have two points in common.

15. What is the measure of $\frac{3}{4}$ of a revolution?

16. Find the equivalent fraction of $\frac{15}{35}$ with denominator 7.

17. Write $\frac{129}{8}$ as a mixed fraction.

18. Write the smallest 4 digit number with different digits.

19. Find the sum of - 312, 39 and 192

20. Which number will we reach if we move 5 numbers to the left of 0.

SECTION – B

Questions 21 to 26 carry 2 marks each.

21. Express each of the following numbers as the sum of three odd primes: (a) 21 (b) 53

22. Mother asked Neelu and her brother to pick stones from the wheat. Neelu picked one fourth of the total stones in it and her brother also picked up one fourth of the stones. What fraction of the stones did both pick up together?

23. Draw any polygon and shade its interior.

24. Insert commas suitably and write the names according to International System of Numeration :
(a) 78921092 (b) 7452283

OR

Place commas correctly and write the numerals:

- (a) Seven crore fifty two lakh twenty one thousand three hundred two.
(b) Twenty three lakh thirty thousand ten.

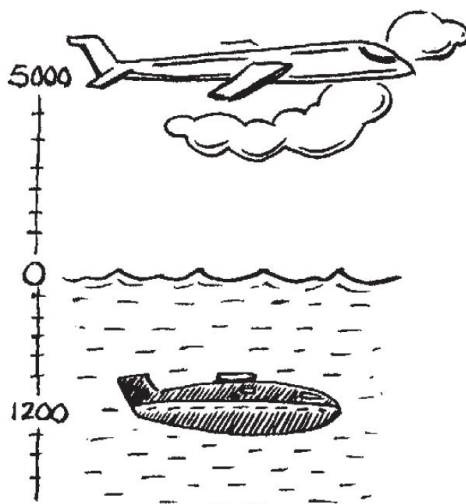
25. Find the number of right angles turned through by the hour hand of a clock when it goes from
(a) 3 to 6 (b) 2 to 8 (c) 5 to 11 (d) 10 to 1

OR

What part of a revolution have you turned through if you stand facing

- (a) east and turn clockwise to face north?
(b) south and turn clockwise to face east?

26. A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?



SECTION – C

Questions 27 to 34 carry 3 marks each.

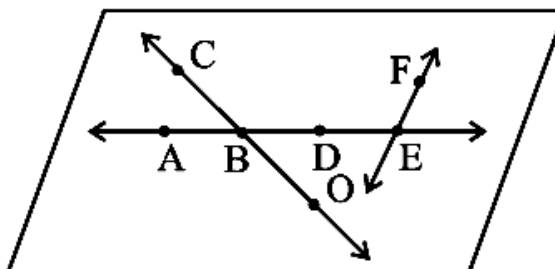
27. Write in Roman Numerals (a) 53 (b) 72 (c) 60.

28. Find the product by suitable rearrangement:

(a) $125 \times 40 \times 8 \times 25$ (b) $285 \times 5 \times 60$

29. Use the figure to name :

- (a) Line containing point E.
 (b) Line passing through A.
 (c) Line on which O lies
 (d) Two pairs of intersecting lines.



30. Asha and Samuel have bookshelves of the same size partly filled with books. Asha's shelf is $\frac{5}{6}$ th full and Samuel's shelf is $\frac{2}{5}$ th full. Whose bookshelf is more full? By what fraction?

31. Using divisibility tests, determine which of following two numbers are divisible by 6: (a) 438750
 (b) 1790184

32. Draw a rough sketch of a quadrilateral KLMN. State, (a) two pairs of opposite sides, (b) two pairs of opposite angles, (c) two pairs of adjacent sides.

OR

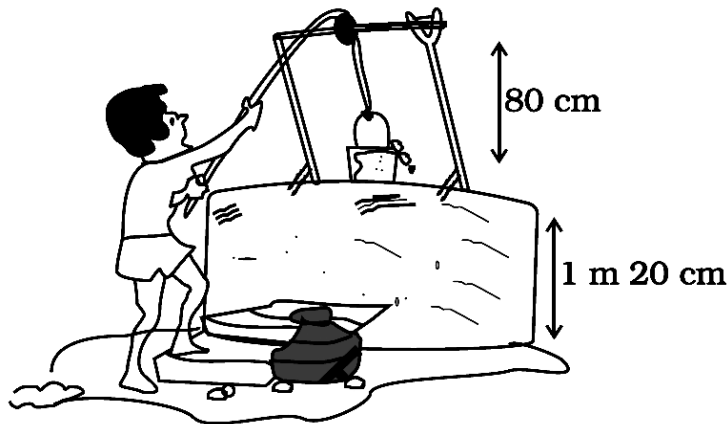
Draw any circle and mark (a) its centre (b) a radius (c) a diameter (d) a sector (e) a segment (f) an arc

33. Where will the hand of a clock stop if it

- (a) starts at 12 and makes $\frac{1}{2}$ of a revolution, clockwise?
 (b) starts at 2 and makes $\frac{1}{2}$ of a revolution, clockwise?

(c) starts at 5 and makes $\frac{1}{4}$ of a revolution, clockwise?

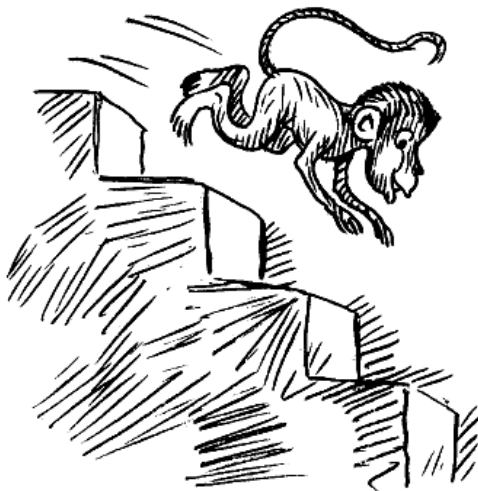
34. Water level in a well was 20m below ground level. During rainy season, rain water collected in different water tanks was drained into the well and the water level rises 5 m above the previous level. The wall of the well is 1m 20 cm high and a pulley is fixed at a height of 80 cm. Raghu wants to draw water from the well. Find the minimum length of the rope that he can use.



OR

A water tank has steps inside it. A monkey is sitting on the topmost step (i.e., the first step). The water level is at the ninth step.

- (i) He jumps 3 steps down and then jumps back 2 steps up. In how many jumps will he reach the water level?
- (ii) After drinking water, he wants to go back. For this, he jumps 4 steps up and then jumps back 2 steps down in every move. In how many jumps will he reach back the top step?



SECTION – D

Questions 35 to 40 carry 4 marks each.

35. Use number line and add the following integers : (a) $(-1) + (-2) + (-3)$ (b) $(-2) + 8 + (-4)$

OR

Temperature of a place at 12:00 noon was $+5^{\circ}\text{C}$. Temperature increased by 3°C in first hour and decreased by 1°C in the second hour. What was the temperature at 2:00 pm?

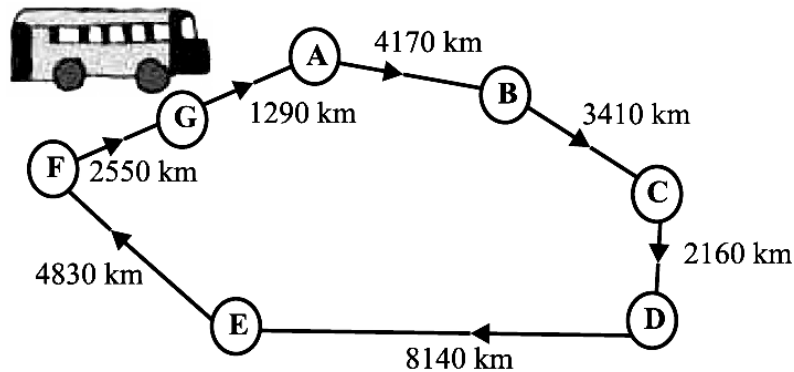
36. Determine the sum of the four numbers as given below:

- (a) successor of 32
(b) predecessor of 49

- (c) predecessor of the predecessor of 56
- (d) successor of the successor of 67

37. A bus started its journey and reached different places with a speed of 60 km/hour. The journey is shown below figure.

- (i) Find the total distance covered by the bus, if it starts from A and returns back to A.
- (ii) Can you find the difference of distances from C to D and D to E?



38. It was estimated that because of people switching to Metro trains, about 33000 tonnes of CNG, 3300 tonnes of diesel and 21000 tonnes of petrol was saved by the end of year 2007. Find the fraction of :

- (i) the quantity of diesel saved to the quantity of petrol saved.
- (ii) the quantity of diesel saved to the quantity of CNG saved.

39. A merchant is a person whose job is to buy and sell products in large amounts. He sells goods for his profit. He has 120 litres of oil of one kind, 180 litres of another kind and 240 litres of a third kind. He wants to sell the oil by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin?

OR

Aditi and her friends want to donate books to three village schools. She wants to mail three parcels. She finds that the postal charges are Rs 20, Rs 28 and Rs 36, respectively. If she wants to buy stamps only of one denomination, what is the greatest denomination of stamps she must buy to mail the three parcels?

40. Draw a rough figure and label suitably in each of the following cases:

- (a) Point P lies on \overline{AB} .
- (b) \overline{XY} and \overline{PQ} intersect at M.
- (c) Line l contains E and F but not D.
- (d) \overline{OP} and \overline{OQ} meet at O.