

KENDRIYA VIDYALAYA AFS BAGDOGRA
HALF YEARLY EXAM (2018-19)

8/10/18

Subject: - Mathematics

Time: - $2\frac{1}{2}$ hrs

Class: - VI

Max. marks: - 80

General Instructions:

- (i) All questions are compulsory.
- (ii) This question paper contains 33 questions divided into four Sections A, B, C and D.
- (iii) **Section A** comprises of 7 questions of 1 mark each. **Section B** comprises of 13 questions of 2 marks each. **Section C** comprises of 9 questions of 3 marks each and **Section D** comprises of 4 questions of 5 marks each.
- (iv) Use of Calculators is not permitted.

Section A

1×7=7

1. Which is the smallest whole number?
2. Write the successor of 2345670.
3. Let \overline{PQ} be the perpendicular to the line segment \overline{XY} . Let \overline{PQ} and \overline{XY} intersect in the point A. What is the measure of $\angle PAY$?
4. Write four negative integers greater than (-20) .
5. What fraction of a day is 8 hours?
6. Express as mixed fractions: $\frac{20}{3}$.
7. Which is greater: 5.64 or 5.603

Section B

2×13=26

8. Insert commas suitably and write the names according to Indian system of numeration:
(a) 87595762 (b) 98432701
9. Write the smallest digit and the greatest digit in the blank space of the number 4765__2 so that the number formed is divisible by 3.
10. Write all the numbers less than 100 which are common multiples of 3 and 4.
11. Find the HCF of 91, 112 and 49.
12. How many lines can pass through (a) one given point? (b) two given points?
13. Write Yes/No.
(a) Is every diameter of a circle also a chord?
(b) Is every chord of a circle also a diameter?
14. Name the types of following triangles:
(a) ΔPQR such that $PQ=QR=PR=5\text{cm}$.
(b) Triangle with lengths of sides 7cm, 8cm and 9cm.
15. Using the number line write the integer which is:
(a) 3 less than -2 (b) 5 more than -5
16. Solve: $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$.
17. Find the equivalent fraction of $\frac{36}{48}$ with numerator 9.
18. Find the value of $11.6 - 9.847$
19. Sunita travelled 15 km 268 m by bus, 7 km 7 m by car and 500 m on foot in order to reach her school. How far is her school from her residence?
20. Write each of the following as decimals.
(a) $4\frac{1}{2}$ (b) $23 + \frac{2}{10} + \frac{6}{1000}$

Section C

3×9=27

21. A vessel has 4 litres and 500 ml of curd. In how many glasses, each of 25 ml capacity, can it be filled?
22. Find the value of: $3845 \times 5 \times 782 + 769 \times 25 \times 218$.
23. Using divisibility tests, determine whether 901352 is divisible by 6 or not?
24. Write the smallest 5-digit number and express it in the form of its prime factors.
25. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
26. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.
27. Find (a) $50 - (-40) - (-2)$ (b) $(37) + (-2) + (-65) + (-8)$
28. In a class A of 25 students, 20 passed with 60% or more marks; in another class B of 30 students, 24 passed with 60% or more marks. In which class was a greater fraction of students getting with 60% or more marks?
29. Between which two numbers in tenths place on the number line does each of the given number lie?
(a) 0.19 (b) 0.06

Section D

5×4=20

30. Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.
31. 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,
(d) two pairs of adjacent angles.
32. 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?
33. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and the rest is potatoes. What is the weight of the potatoes?