

O.P JINDAL SCHOOL, SAVITRI NAGAR

Annual Examination (2023 – 24)

Class / Section: VI

MM: 80

Subject: Mathematics

Time: 3 hrs

Name: _____

Roll No. _____

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions:

- i.* This question paper contains 44 questions. All questions are compulsory.
- ii.* This question paper is divided into 4 sections – Sections A, B, C and D.
- iii.* Section A comprises 20 questions (Q.No. 1 to 20) of 1 mark each.
- iv.* Section B comprises 8 questions (Q.No. 21 to 28) of 2 marks each.
- v.* Section C comprises 8 questions (Q.No. 29 to 36) of 3 marks each.
- vi.* Section D comprises 4 questions (Q.No. 37 to 40) of 4 marks each. There is case-study based questions (Q.No. 41 to 44) of 1 mark each.
- vii.* There is no overall choice. However an internal choice has been provided. You have to attempt only one of the alternatives in all such questions.

(SECTION – A)

Choose the correct option:

- Q1.** A fraction equivalent to $\frac{3}{8}$ is
- a) $\frac{12}{32}$ b) $\frac{3}{32}$ c) $\frac{4}{32}$ d) $\frac{11}{32}$
- Q2.** Decimal form of three ones and seven tenths
- a) 3.07 b) 7.3 c) 3.7 d) 30.7
- Q3.** If ☼ represents 5 flowers, then the number of ☼ symbols to be drawn to represent 60 flowers is
- a) 5 b) 60 c) 10 d) 12
- Q4.** The perimeter of _____ = 3 x side.
- a) Square b) equilateral triangle c) rectangle d) none of these

Q17. 5 taken away from the sum of x and y is

- a) $5 - (x + y)$ b) $(x + y) - 5$ c) $\frac{x+y}{5}$ d) $5(x + y)$

Q18. $\frac{4}{7}$ is _____ fraction.

- a) Like b) Unlike c) Proper d) Improper

Q19. 1 cm equals

- a) 0.001 m b) 0.10 m c) 0.01 m d) 0.1 m

Q20. Ratio of 200 g to 2 kg is

- a) 2 : 200 b) 100 : 1 c) 10 : 1 d) 1 : 10

(SECTION – B)

Answer the following questions:

Q21. Write natural numbers from 2 to 17. What fraction of them are even?

Q22. Represent 2.4 on the number line.

Q23. Find perimeter of an equilateral triangle whose side is 2 m 55 cm.

OR

Find the area of square of side 5 cm.

Q24. Write the given statement in ordinary language

Ramesh is x years old. His father is $(4x + 2)$ years old.

Q25. Find two equivalent ratios of 5 : 7.

OR

Compare: $\frac{5}{6}, \frac{8}{19}$

Q26. Construct 60° by using ruler and compass.

Q27. Write any two English alphabets having 2 lines of symmetry.

Q28. Draw a circle whose radius is 4.5 cm.

OR

Draw a line segment of length 6.9 cm using a ruler.

(SECTION – C)

Q29. Write three improper fractions with denominator 5.

Q30. Convert as directed:

a) 7 mm = _____ cm

b) 325 mL = _____ L

c) 7777 m = _____ km.

Q31. Find the cost of fencing a square pond of side 150 m at the rate of Rs. 25 per metre.

Q32. Following are the average marks of a class in four subjects. Draw a bar graph to represent the data.

English	Mathematics	Science	S.St
65	84	78	70

OR

The following data gives the number of children in 20 families.

1,1,2,3,2,3,4,5,1,5,4,1,2,4,2,2,1,3,3,2

Arrange the data and form a frequency distribution table.

Q33. Vinay is x years old. His brother's age is 4 years more than twice his age. What is the difference in their ages?

OR

Solve and verify : $\frac{4x}{5} = 8$

Q34. Draw the following figures and find the number of lines of symmetry for each figure.

a) Square

b) Rectangle

c) Isosceles triangle.

Q35. The cost of 7 kg of mangoes is Rs. 434. How many kg of mangoes can be purchased for Rs. 341.

OR

Find the mean proportion of 5, 20

Q36. Construct 120° by using ruler and compass.

(SECTION – D)

Q37. Arrange the fractions $\frac{2}{3}$, $\frac{1}{6}$, $\frac{3}{4}$ and $\frac{5}{12}$ in ascending order.

OR

Find the sum: $\frac{1}{2} + \frac{2}{9} + \frac{1}{12}$

Q38. The number of boys and girls in a school are 360 and 240, respectively.

- a) What is the ratio of number of girls to the number of boys.
- b) What is the ratio of number of boys to the total number of students.

Q39. Find the sum of 58 L 585 mL, 7 L 75 mL, 20 L 600 mL, 14 L 740 mL.

OR

Simplify: $132.95 - 98.85 + 34.985$

Q40. Find perimeter and area of rectangle whose length is 45 cm and breadth is 35 cm.

Case study based question:

The weights of newborn babies (in kg wt) in a hospital on a particular day are as follows:

2.3 2.2 2.1 2.7 2.6 3.0 2.5 2.9 2.8 3.1 2.5 2.8
2.7 2.9 2.4

Q41. The highest weight is

- a) 2.3
- b) 3.0
- c) 3.1
- d) 2.2

Q42. How many babies were born on that day


- a) 10
- b) 12
- c) 14
- d) 15

Q43. The lowest weight is

- a) 3.0
- b) 3.1
- c) 2.1
- d) 2.5

Q44. How many babies weighted 2.8 kg wt?

- a) 2
- b) 3
- c) 4
- d) 5

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