

Grade

8

Questions : 50

Total Marks : 100

Duration : 1 Hour

Set

B

General Instructions

- All questions are compulsory.
- The question paper contains of 50 questions divided into four sections A, B, C and D.
Section – A comprises of **10 Questions of 1** mark each.
Section – B comprises of **20 Questions of 2** marks each.
Section – C comprises of **10 Questions of 3** marks each.
Section – D comprises of **10 Questions of 2** marks each.
- Use of calculator is not permitted.

Section – A

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1. $12 + 4 \times 2 \div 2 = ?$
(a) 18 (b) 16 (c) 32 (d) 14
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2. 3 kg of sugar costs Rs. 210, find the cost of 6 kg of sugar.
(a) Rs. 420 (b) Rs. 400 (c) Rs. 440 (d) Rs. 220
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3. Multiply : $2\frac{1}{6} \times 1\frac{2}{9}$
(a) $\frac{54}{117}$ (b) $\frac{143}{54}$ (c) $\frac{117}{54}$ (d) $\frac{54}{143}$
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4. $5^{-1} + 5^{-1} = ?$
(a) $\frac{2}{51}$ (b) $\frac{2}{10}$ (c) $\frac{2}{5}$ (d) $\frac{-1}{5}$
-
5. $(3 \times 4) - 24 + 8 = ?$
(a) 84 (b) - 84 (c) - 4 (d) 4
-
6. What will be the number of zeros in the square of the number 5000 ?
(a) 3 (b) 6 (c) 4 (d) 8

7. The one's digit of the cube of the number 123 is _____.
- (a) 7 (b) 6 (c) 9 (d) 1
8. During the sale, Rajat paid Rs. 850 for 25 notebooks. What was the original price ?



- (a) Rs. 1650 (b) Rs. 1750 (c) Rs. 1700 (d) None of these
9. Hemant buys 2 shirts for ₹1200 and 1 pant for ₹800. If the shopkeeper offers a discount of ₹150, find the amount he has to pay ?
- (a) Rs. 1950 (b) Rs. 1800 (c) Rs. 1850 (d) Rs. 1750
10. $1250 \div 5^3 - 10^2 = ?$
- (a) 1125 (b) 190 (c) 100 (d) -90

Section - B

11. $\frac{1}{2} \times \frac{2}{3} \div \frac{7}{3} + \frac{1}{2} = ?$
- (a) $\frac{1}{9}$ (b) $\frac{9}{14}$ (c) $\frac{2}{9}$ (d) $\frac{2}{14}$
12. $997 \times 1003 = ?$
- (a) 999991 (b) 9999909 (c) 99999 (d) None of these
13. A man buys a cycle for ₹1400 and sells it at a loss of 15%. What is the selling price of the cycle?
- (a) Rs. 1202 (b) Rs. 1160 (c) Rs. 1190 (d) Rs. 1500
14. If 40% of a number is 120, then find the number.
- (a) 280 (b) 160 (c) 300 (d) 325

15. $\frac{1}{3} \times 9 \times \frac{1}{5} \div \frac{1}{5} = ?$
(a) $\frac{3}{25}$ (b) 27 (c) 3 (d) $\frac{9}{45}$
16. $\frac{x-3}{14-x} = \frac{1}{10}$, find x.
(a) 5 (b) 4 (c) 3 (d) 2
17. The marked price of an item is ₹1250, and the shopkeeper allows a discount of 6%. Find the selling price of the item.
(a) Rs. 1175 (b) Rs. 1125 (c) Rs. 1165 (d) Rs. 1155
18. The four angles of a quadrilateral are in the ratio 4 : 5 : 6 : 3. What is the measure of its largest angle?
(a) 100° (b) 80° (c) 60° (d) 120°
19. The height of a cylinder whose radius is 7cm and the total surface area is 968 cm^2 is _____.
(a) 17 cm (b) 15 cm (c) 21 cm (d) 16 cm
20. $\frac{4}{5} \times \frac{10}{8} \div \frac{1}{5} + 5 = ?$
(a) 5 (b) 10 (c) 15 (d) 0
21. Swati types 200 words in 30 minutes. How many words will she type in 12 minutes ?
(a) 80 (b) 120 (c) 112 (d) 95
22. A vehicle is bought for Rs. 64000. It's value depreciates at 10% p.a. What will be it's value after 2 years ?
(a) Rs. 51800 (b) Rs. 52012 (c) Rs. 51840 (d) Rs. 51480

23. What is the remainder when the expression $4x^3 + x^2 - 13x + 10$ is divided by $(4x + 5)$?
 (a) 20 (b) 25 (c) 30 (d) 40
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24. A person received a 10% increase in his salary. If his salary was ₹50,000, what is his new salary _____.
 (a) Rs. 60000 (b) Rs. 55000 (c) Rs. 65000 (d) Rs. 50500
-
25. $2 + 3 - 7 \times 16 \div 8 = ?$
 (a) 19 (b) - 85 (c) 14 (d) - 9
-
26. $\frac{(4 + x)(5 - x)}{(2 + x)(7 - x)} = 1$, find x
 (a) $\frac{4}{5}$ (b) $\frac{3}{2}$ (c) $\frac{7}{3}$ (d) - 4
-
27. Which is a better buy ?
 (a) 300 gm of cardamom for Rs. 1230 (b) 500 gm of cardamon for Rs. 2000
 (c) Both (a) and (b) (d) None of the above
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28. Two adjacent angles of a parallelogram are equal. What is the measure of each angle?
 (a) 90° (b) 45° (c) 72° (d) 60°
-
29. The volume of a cuboid is 440 cm^3 and the area of it's base is 88 cm^2 . Find it's height.
 (a) 4 cm (b) 5 cm (c) 6 cm (d) 7 cm
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30. If 36 men can do a piece of work in 25 days, in how many days will 15 men do it ?
 (a) 65 days (b) 45 days (c) 60 days (d) 63 days

Section - C

31. Evaluate $[15\% \text{ of } 150] + 23 \div 115$
 (a) 22.5 (b) 22.7 (c) 19.8 (d) 32

32. By what number should $\left(\frac{5}{3}\right)^{-2}$ be multiplied so that the product may be $\left(\frac{7}{3}\right)^{-1}$

- (a) $\frac{9}{75}$ (b) $\frac{75}{9}$ (c) $\frac{25}{21}$ (d) $\frac{63}{7}$

33. If the selling price of 10 pens is equal to the cost price of 14 pens, find the gain percentage.

- (a) 32% (b) 40% (c) 20% (d) 43%

34. Find $\frac{\sqrt{1183}}{\sqrt{2023}}$

- (a) $\frac{13}{17}$ (b) $\frac{15}{19}$ (c) $\frac{24}{17}$ (d) $\frac{13}{19}$

35. $0.078 \div 0.13 - 0.17 \times 5 + \frac{12}{3} = ?$

- (a) 0.375 (b) 3.75 (c) 4.05 (d) 5.45

36. Find x, $4x = (52)^2 - (48)^2$

- (a) 81 (b) 90 (c) 100 (d) 49

37. What will be the discount percentage if the marked price of an item is ₹900 and its selling price is ₹873 ?

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

38. How many sides does a regular polygon have if each of its interior angles measures 108° ?

- (a) 3 (b) 4 (c) 5 (d) 6

39. Meera borrowed a sum of ₹1000 from Sita for two years. If the rate of interest is 10% per annum, compounded annually, find the amount Meera has to pay back.

- (a) Rs. 1210 (b) Rs. 1200 (c) Rs. 1190 (d) Rs. 1220

40. $7^2 \times 2^3 \div 4^2 + 5^2 = ?$
(a) 48.9 (b) 50 (c) 49.5 (d) 50.5

Section - D

41. How many pairs of letter are there in the word "CONDITIONAL", each of which has as many letters between them in the word as in the English Alphabet ?

(a) 4 (b) 5 (c) 2 (d) None of these

42. Find the odd one out.

(a) Cat (b) Rabbit (c) Fox (d) Dog

43. In a certain code 'HELIUM' is written as JGNKWO, then how is 'ARGON' written in that code ?

(a) CTIQP (b) DOTQW (c) EGTQN (d) None of these

44. Aniket puts his timepiece on the table in such a way that at 6 PM hour hand point to North. In which direction the minute hand will point at 9.15 PM ?

(a) East (b) South (c) North (d) West

45. 2, 5, 11, 23, 47, ?

(a) 32 (b) 95 (c) 90 (d) 69

46. If Atul finds that he is 12th from the right and 4th from the left in a line of boys, how many boys should be added to make a total of 28 boys in the line?

(a) 12 (b) 13 (c) 14 (d) 15

47. Which word will come first if all of them are arranged alphabetically ?

Science, Script, Scramble, Scrutiny, Scripture

(a) Script (b) Scramble (c) Science (d) None of these

48. Find the odd one out.

(a) 63

(b) 23

(c) 7

(d) 13

49. 5, 10, 20, 40, ?

(a) 60

(b) 80

(c) 70

(d) 50

50. How many such pairs of Numbers are there in the series 594768213, each of which has as many numbers between them in the number, as they have in the numeric series ?

(a) 5

(b) 7

(c) 6

(d) 2

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