1. The price of a commodity is increased by 40%. By what percent should a consumer reduce his consumption so that his expenditure on the commodity remains constant?

   (a) $25\frac{4}{7}\%$

   (b) $26\frac{4}{7}\%$

   (c) $27\frac{4}{7}\%$

   (d) $28\frac{4}{7}\%$

2. If Ram's salary went up by 25%, then by what percent should it be brought down to bring it to its initial value?

   (a) 25%

   (b) 20%

   (c) 33.33%

   (d) 37.5%

3. A number, when decreased by 20% becomes 136. What is the number?

   (a) 160

   (b) 150

   (c) 170

   (d) 140

4. If 60% of K is 30 less than 75% of K, then what is the value of K?

   (a) 500

   (b) 300

   (c) 400

   (d) 200

5. In an examination, Ramesh secured 574 marks and Rekha secured 76% of the total marks. If Ramesh secured 82% of total marks, the difference in their marks, is _____.

   (a) 40

   (b) 41

   (c) 42

   (d) 43

6. By what percent will the area of a square change if its side is increased by 10%?

   (a) 10% increase

   (b) 20% increase

   (c) 10% decrease

   (d) 21% increase

7. The population of a city increase by 30% every year. If the present population is 338000, then what was the population of the city two years ago?

   (a) 300000

   (b) 250000

   (c) 200000

   (d) 240000

8. Two – fifth of one-third of three-seventh of a number is 15. What is 40 percent of that number?

   (a) 72

   (b) 84

   (c) 136

   (d) None of these

9. The sum of two numbers is $\frac{28}{25}$ of the first number. The second number is what percent of the first?

   (a) 12%

   (b) 14%

   (c) 16%

   (d) 18%

10. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the number of students of 8 years age which is 48. What is the total number of students in the school?

    (a) 72

    (b) 80

    (c) 120

    (d) None of these

11. A man spends 35% of his income on food, 25% on children's education and 80% of the remaining on house rent. What percent of his income he is left with?
(a) 8%
(b) 10%
(c) 12%
(d) 14%

12. What percent decrease in salaries would exactly cancel out 20 percent increase?
(a) $16\frac{2}{3}$
(b) 18
(c) 20
(d) $33\frac{1}{3}$

13. If inflation increase at a rate of 8% p.a., what will a Rs, 20 article cost at the end of two years?
(a) Between Rs. 20 and Rs. 21
(b) Between Rs. 21 and Rs. 22
(c) Between Rs. 22 and Rs. 23
(d) Between Rs. 23 and Rs. 24

14. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was
(a) Rs. 10, 000
(b) Rs. 11, 372
(c) Rs. 12, 000
(d) Rs. 12, 500

15. The present population of a country estimated to be 10 crores is expected to increase to 13.31 crores during the next three years. The uniform rate of growth is :
(a) 8%
(b) 10%
(c) 12.7%
(d) 15%

16. Two numbers are less than a third number by 30% and 37% respectively. How much percent is the second number less than the first?
(a) 3%
(b) 4%
(c) 7%
(d) 10%

17. Two candidates contested for a post of an election. 70 votes were declared as invalid. The victorious candidate secured 55% votes and won the election by 90 votes. Total numbers of votes polled is :
(a) 475
(b) 565
(c) 970
(d) 1070

18. In an examination, 450 candidates were boys and 550 were girls. If 32% of the boys and 38% of the girls passed the examination, the percentage of failed candidates is :
(a) 35.3%
(b) 62%
(c) 64.7%
(d) 68%

19. In an examination, a candidate must secure 45% marks to pass. Ashok secures 325 marks but he fails by 35 marks. What were the maximum marks for the examination?
(a) 1800
(b) 900
(c) 800
(d) 750

20. The population of a village at the beginning of a year was 10000. During that, it increased by 5 percent and during next year decreased by 5 percent. At the end of the second year, the population of the village was :
(a) 9975
(b) 10500
(c) 10525
(d) 10075

21. The value of a machine depreciates from Rs. 32768 to Rs. 21952 in three years. What is the rate percentage of depreciation?
(a) 11%
(b) 12.5%
(c) 33%
(d) 12.25%

22. The population of a city increase at the rate of 10% annually. Its present population is 90.51 lacs. The population 3 years ago was nearly.
(a) 60 lacs
(b) 68 lacs
(c) 71 lacs
(d) 72.8 lacs

23. If the area of rectangle is increased by 13% and its breadth is increased by 5%, then what is the percentage increase in its length? (approximately)
(a) 10 %
(b) 8 %
(c) 18%
(d) 12%

24. A man donated 6% of his income to a charity and deposited 20% of the rest in a bank. If he is left with Rs. 14, 00, then his income is _____.
(a) Rs. 18000
(b) Rs. 18250
(c) Rs. 18500
(d) Rs. 18750

25. The price of an article increase by 10%, 15% and 20% in 3 consecutive weeks. What is the approximate overall percentage increase for the 3 weeks.
(a) 45%
(b) 62%
(c) 35%
(d) 52%

26. A reduction of 10% in the price of an article enables a dealer to purchase 25 articles more for Rs 45000. What is the original price of the article?
(a) Rs. 100
(b) Rs. 150
(c) Rs. 200
(d) Rs. 250

27. A solution of 165 litres contains 80% of acid and the rest water. How much water must be added to the above solution such that the resulting mixture contains 25% water?
(a) 11 litres
(b) 8 litres
(c) 9 litres
(d) 10 litres

28. Laxman saves 10% more than his expenditure and Bhuwan spends 10% more than his savings. If Laxman's savings is 10% more than Bhuwan's expenditure, What is the ratio of incomes of Laxman and Bhuwan?
(a) 9 : 10
(b) 100 : 99
(c) 10 : 11

(d) 11 : 10

29. Madan spends 50% of his income on household expenditure and 60% of the remaining on personal expenditure. Of the remaining, he pays 50% towards income tax and saves the remaining Rs. 1200. What is the personal expenditure of Madan?
(a) Rs. 1800
(b) Rs. 2400
(c) Rs. 3600
(d) Rs. 4800

30. In the year 2001, the price of article A is 20% more than the price of article B. in the year 2002, the price of article A is 50% more than the prices of article B. from 2001 to 2002, if the price of A has increased by 50%, by what percent has the price of B increased?
(a) 0
(b) 10
(c) 20
(d) 25

31. When the price of an article is increased by 15%, the number of articles sold decreases by 20%. What is the percentage change in the sales revenue?
(Sales revenue = price of each article x number of articles sold).
(a) 5% increase
(b) 3% decrease
(c) 8% increase
(d) 8% decrease

32. The population of a town increases by 25% annually. If the present population is one crore, then what was the difference between the population 3 years ago and that 2 years ago?
(a) 2500000
(b) 1280000
(c) 1560000
(d) 2000000

33. The ratio of boys and girls in a class is 5 : 3. 20% of the boys and 60% of the boys and 60% of the girls have passed in first class. What percentage of the class has passed in first class?
(a) 35%
(b) 32%
(c) 34%
(d) 33%

34. There are three quantities A, B and C is $16\frac{2}{3}$ % less than A and C is $14\frac{2}{7}$ % more than B. By what present is A more than C?
    (a) 5
    (b) 6
    (c) 7
    (d) 8

35. A's savings is 30% less than B's savings is 20% less than C's savings. By what percentage is C's savings more than A's savings?
    (a) $63\frac{2}{7}$%
    (b) $52\frac{1}{3}$ %
    (c) $64\frac{3}{5}$ %
    (d) $78\frac{4}{7}$ %

36. A solution of 150 litres contains 60% of milk and the rest water. How much water must be added to the above solutions such that the resulting mixture contains 50% of water (in its)?
    (a) 60
    (b) 80
    (c) 20
    (d) 30

37. In an election there are three contestants A, B and C. A secured 30% of the votes and B secured 60% of the remaining votes. If C secured 14000 votes, then by how many votes did the winner win the election?
    (a) 5000
    (b) 6000
    (c) 7000
    (d) 8000

38. Kiran's salary was first increased by 30% and then decreased by 30%. If the latest salary is Rs. 2275, then what was the original salary of Kiran?
    (a) Rs. 2275
    (b) Rs. 2425
    (c) Rs. 2600
    (d) Rs. 2500

39. When the price of an article is increased by P%, then quantity of sales decrease by 10% but sales revenue increases by 10%. Find p
    (a) 20
    (b) $22\frac{2}{9}$
    (c) $18\frac{2}{11}$
    (d) 30

40. The total expenditure of a school on certain consumable items was found to be Rs 50650 in the year 1972. If the cost of living index for the years 1975, taking 1972 as the base year, is 162.8, then the expenditure of the school is 1975 is
    (a) Rs 82458
    (b) Rs 82458.20
    (c) Rs 82458.40
    (d) None of these

41. In March Rohan's monthly expenditure was 90% of his monthly income. His monthly income increased by 30% and his monthly expenditure increased by 20% when compared to the previous month. Find the percentage increase in his monthly savings.
    (a) 130%
    (b) 120%
    (c) 110%
    (d) 125%

42. In the year 2000, rice formed 20% of total foodgrain production in a country. In the next year, total foodgrain production increased by 20% and rice production was 25% of total foodgrain production. What is the increase in the production of rice from 2000 to 2011?
    (a) 25%
    (b) 50%
    (c) 40%
    (d) 30%

43. In school X, the number of boys is more than that of the girls by 40%. In school Y, the number of girls is more than that of boys by 50%. If 50% boys in school X is equal to 70% of girls is school Y, what is the ratio between number of students of school X and school Y?
    (a) 24 : 25
    (b) 16 : 17
    (c) 3 : 4
    (d) 36 : 25

44. A manufacturer purchase a second hand machine for Rs 60000 and spends some amount towards repairs then its value goes upto Rs 90000. If depreciation is 10% p.a, what will be the value of the machine after two years?
    (a) Rs 48600
    (b) Rs 81000
    (c) Rs 67200
    (d) Rs 72900

45. Two numbers x and y, are in the ratio $\frac{5}{6} : \frac{3}{4}$. By what percent is x more than y?
(a) 10%
(b) $9.\overline{09}$%
(c) 12.5%
(d) $11.\overline{11}$%

46. Ramu saves 14% of his salary while Ramesh saves 24%. If both get equal salaries and Ramesh saves Rs 1440, then Ramu's expenditure is _____.
(a) Rs 5000
(b) Rs 5160
(c) Rs 6000
(d) Rs 7440

47. The side of square ABCD is 20% longer than the side of square PQRS. By what percentage is the area of ABCD more than the area of PQRS?
(a) 20%
(b) 24%
(c) 40%
(d) 44%

48. Only two candidates, A and B, contested in an election. In the total of 20000 votes 10% were invalid. A won the election by 3600 votes. What percentage of valid votes are secured by B?
(a) 45%
(b) 40%
(c) 30%
(d) 35%

49. Jacob and Mohan save 20% and 40% of their respective incomes. If their expenditures are equal, then what is the ratio of the incomes of Mohan and Jacob?
(a) 1 : 2
(b) 3 : 4
(c) 2 : 1
(d) 4 : 3

50. There are 3 numbers. The first and second numbers are 20% and 40% more than the third number. What percentage is the first number of the sum of the second and the third numbers?
(a) 25%
(b) 50%
(c) 30%
(d) 40%

ANSWER KEY

Ques.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Ans.	d	b	c	d	c	d	c	d	a	d
Ques.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
Ans.	a	a	d	c	b	d	c	c	c	a
Ques.	21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
Ans.	b	b	b	d	d	c	a	d	c	c
Ques.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
Ans.	d	b	a	a	d	d	b	d	b	b
Ques.	41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
Ans.	b	b	d	d	d	b	d	b	d	b