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XBC–401/XBI–401/XCH–401/ BBA–406/ESE–401/ PBH–404/MBH–405/ LNC–416/BOV–405/ TBS–406(B)

B. C. A./B. SC. (IT)/B. COM./B. B. A./ B. SC. (P)/B. SC. (M)/B. A. (E)/ B. B. A. (LLB)/B. VOC./B. SC. (CS)
(FOURTH SEMESTER)
MID SEMESTER EXAMINATION, April/May, 2022
CAREER SKILLS

Time : 1½ Hours

Maximum Marks : 50

Instructions for candidates :

(1) This question paper has 50 questions.

P. T. O.

(2) Attempt all questions.

(3) Each question carries equal marks.

(4) Calculator is not allowed.

(5) There is no negative marking for incorrect responses.

(6) It is compulsory to mention the SET in the OMR.

SET–B

1. Find the HCF of 3/15, 9/8 and 3/4.

   (a) 3/120

   (b) 1/40

   (c) 3/40

   (d) none of these

2. Find the remainder when $1457 \times 2968 \times 1379$ is divided by 5.

   (a) 4

   (b) 1

   (c) 2

   (d) 3

3. Find the smallest number that will give a remainder of 4 when divided by 5, 6 and 9.

   (a) 94

   (b) 4

   (c) 184

   (d) 30

4. Find the sum of number of even factors and odd factors of 1800.

   (a) 36

   (b) 18

   (c) 27

   (d) 9

5. If the price of an article rose by 25% every odd year and fell by 20% every even year, what would be the percentage after 20 years ?

   (a) 10% increase

   (b) 25% increase

   (c) no change

   (d) 20% decrease

6. If the price of sugar rises from ₹ 10/kg to ₹ 12.50/kg, then Vishal, who wants to have no increase in his expenditure on sugar, will have to reduce his consumption of sugar by :

(a) 25%

(b) 15%

(c) 20%

(d) 30%

7. In a class of students, 25% of the students get a scholarship. There are 40 girls and 50% of them get a scholarship. If the girls constitute 25% of the strength of the class, find the % of boys who get a scholarship.

(a) 16.66%

(b) 20%

(c) 25%

(d) 18%

8. Kiran sells a book to Rahul at a gain of 10% and Rahul again sells it to Justin at a gain of

15%. If Justin pays ₹ 253 to Rahul, what is the cost price of the book for Kiran ?

(a) ₹ 210

(b) ₹ 215

(c) ₹ 200

(d) ₹ 180

9. N is the smallest number greater than 600 which gives a remainder of 5 when divided by both 6 and 9. Find the remainder when N is divided by 5.

(a) 2

(b) 0

(c) 5

(d) none of these

10. What is the remainder when 123 × 124 × 125 is divided by 9 ?

(a) 2

(b) 3

(c) 6

(d) 4

11. The five-digit number 7500A8 is divisible by 4. How many values of A are possible ?

(a) 0

(b) 3

(c) 5

(d) 4

12. Which one of the following is not a rational number ?

(a) 0.2333

(b) 0.56666

(c) $\sqrt{3}$

(d) 7

13. Which of the following is an odd prime number ?

(a) 1

(b) 9

(c) 3

(d) 15

14. Which of the following is a prime number ?

(a) 241

(b) 303

(c) 111

(d) 121

15. If A got 8.33% more votes than B in an election, by what % is B's votes less than that received by A ?

(a) 7.71%

(b) 8.33%

(c) 9.09%

(d) 10%

16. If all the mentioned values are increased, which among the following will lead to the maximum percentage change ?

(a) 10%, 10%

(b) 19%, 1%

(c) 17%, 3%

(d) all of them are equal

P. T. O.

17. If the cost price of 25 items is equal to the selling price of 15 items, find the profit or loss % earned ?

   (a) 10% profit

   (b) 40% profit

   (c) 16.66% profit

   (d) 66.66% profit

18. If the radius of a circle decreases by 10%, what will be the % change in the area of the circle ?

   (a) 21% decrease

   (b) 10% decrease

   (c) 19% decrease

   (d) 20% decrease

19. In a family, the father ate half of a cake while the remaining half was divided equally among the 4 children. By what % was the father's share more than any of the children's share ?

   (a) 200%

   (b) 400%

   (c) 300%

   (d) 100%

20. In an Exam, a candidate got 35% marks and failed by 12 marks. If he had got 48% marks instead, he would have got 14 marks more than the passing marks. Find the passing marks.

   (a) 96

   (b) 82

   (c) 200

   (d) none of these

21. In an examination where the total marks are 60, a candidate needs 40% to pass. If a student gets 18 marks more than the passing marks, what is the marks percentage obtained by the student ?

   (a) 46%

   (b) 50%

   (c) 70%

   (d) 43%

P. T. O.

22. In English course of a college, 25% students were absent. If 18 students attended the class, find the number of students who were absent.

(a) 24

(b) 20

(c) 6

(d) 2

23. In front of a shop a sign said, "Sale of 30% discount + 40% discount." Find the effective discount being offered by shop.

(a) 58% discount

(b) 35% discount

(c) 70% discount

(d) none of these

24. In spite of 33.33% decrease in price, the overall expenditure remained constant. Find the percentage change in consumption.

(a) 25%

(b) 50%

(c) 75%

(d) 37.5%

25. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done ?

(a) 564

(b) 266

(c) 735

(d) 756

26. On selling 20 metres of cloth, a merchant realizes that he has made a loss equal to the selling price of 4 metres of cloth. Find his loss in percentage terms.

(a) 20%

(b) 16.66%

(c) 15%

(d) 12.5%

27. The consumption of a particular commodity increases by 30% and therefore the household decreased the consumption of the commodity

by 25%. Find the percentage change in the expenditure.

(a) 2.5% increase

(b) 25% increase

(c) 0.25% decrease

(d) 2.5% decrease

· 28. The marked price of a watch was ₹ 720. A man bought the same for ₹ 550.8 after getting 2 successive discounts, the first being 10%. What was the rate of the 2nd discount offered ?

(a) 12%

(b) 14%

(c) 15%

(d) 18%

29. The population of a town grows annually at the rate of 5% per annum. If the present population is 9261000, find the population of the town 3 years ago.

(a) 80000

(b) 90000

(c) 800000

(d) none of these

30. The price of a scooter is ₹ 80,000/-, 2 years ago. What would be the present value of scooter, if the rate of depreciation is 20% per year ?

(a) 50000

(b) 51200

(c) 55000

(d) 58000

31. What is the largest scale that can be used to measure 1 m and 5 cms, 2 m and 40 cms and 75 cms ?

(a) 7 cms

(b) 5 cms

(c) 15 cms

(d) 3 cms

32. A manufacturer offers a 20% rebate on the marked price of a product. The retailer offers another 30% rebate on the reduced price. The two reductions are equivalent to a single reduction of :

(a) 44%

P. T. O.

by 25%. Find the percentage change in the expenditure.

(a) 2.5% increase

(b) 25% increase

(c) 0.25% decrease

(d) 2.5% decrease

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(b) 5 cms

(c) 15 cms

(d) 3 cms

32. A manufacturer offers a 20% rebate on the marked price of a product. The retailer offers another 30% rebate on the reduced price. The two reductions are equivalent to a single reduction of :

(a) 44%

(b) 56%

(c) 50%

(d) 57%

33. A trader sells his goods at a discount of 15%. He uses a weight of 800 gm instead of 1 kg. Find his overall profit/loss percentage.

(a) 5%

(b) 5.25%

(c) 6.25%

(d) 6.5%

34. A vendor purchased 2 varieties of mangoes, one @ 5 for 40/- and an equal number @ 6 for 60/-. He mixed them and sold it @ 4 for 28/-. Find the profit or loss percentage.

(a) 22.22% loss

(b) 11.11% loss

(c) 10% loss

(d) 10% profit

35. After adding 50 L water to a container having 250 L of milk, a milkman sells it to a customer at a mark-up of 25%. Find the overall profit or loss%.

(a) 35%

(b) 40%

(c) 45%

(d) 50%

36. Buses to city A arrive at the bus stop every 7 min while buses going to city B arrive at the bus stop every 5 min. If buses to both the cities arrived at the bus stop together at 7 : 30 am, when will they again arrive at the bus stop together ?

(a) 7.55 am

(b) 8.15 am

(c) 8.05 am

(d) none of these

37. By selling a VCD player for ₹ 1,950, I got a profit of 30%. At what price should I have sold it in order to get a profit of 40% ?

    (a) ₹ 2,000

    (b) ₹ 2,100

    (c) ₹ 2,500

    (d) none of these

38. Find the digit at unit's place of the number $47^{278} * 38^{900} - 62^{177}$.

    (a) 4

    (b) 6

    (c) 0

    (d) 2

39. How many factors are common between the numbers 540 and 600 ?

    (a) all factors

    (b) 12

    (c) 20

    (d) cannot be determined

40. I purchased 50 eggs from market. 15 of them were broke on the way and therefore the remaining eggs were sold at 40% profit. Find the overall profit or loss.

    (a) 2% profit

    (b) neither profit nor loss

    (c) 2% loss

    (d) CND

41. If 20% of a number is 10 more than 1/6th of the number, then find the value of remainder when the number is divided by 4.

    (a) 3

    (b) 2

    (c) 1

    (d) 0

42. If $853ab$ is divisible by 6, and both a and b are greater than 6, what is the value of $a + b$?

    (a) 14

    (b) 15

    (c) 16

    (d) 17

43. If the cost price of 25 items is equal to the selling price of 15 items, find the profit or loss % earned ?

(a) 10 % profit

(b) 40% profit

(c) 16.66% profit

(d) 66.66% profit

44. If the number of seats in the assembly is 500 and the top two parties won 250 and 100 seats, respectively. What percent of the total assembly seats have been won by the top two parties put together ?

(a) 50%

(b) 70%

(c) 35%

(d) 40%

45. The MP of an item is ₹ 250. This item is sold at a discount of 20%. If the CP of the item is ₹ 175, find the profit.

(a) 50

(b) 40

(c) 25

(d) 15

46. Two objects are sold at the same price, one at a profit of 10% and another at a profit of 32%. Then, what is the net profit percentage ?

(a) 15%

(b) 20%

(c) 25%

(d) 30%

47. If the area of the square plot increases by 36.89%, find the percentage change in its perimeter.

(a) 15%

(b) 16%

(c) 17%

(d) 18%

48. By what % is 75% of a number more than quarter of the number ?

(a) 25%

(b) 50%

(c) 100%

(d) 200%

49. After selling an article at Rs. 816, a shopkeeper had a loss of 20%. At what price should he sell the article so as to make a profit of 20% ?

    (a) 1224

    (b) 1444

    (c) 1020

    (d) none of these

50. In spite of a markup of 20% over the cost price, a shopkeeper had a loss of 10%. What would the discount percentage be offered by him ?

    (a) 9.09%

    (b) 16%

    (c) 8%

    (d) 8.33%

940