

**XBC-401/XBI-401/
XCH-401/BBA-406/
ESE-401/PBH-404/
MBC-405/LNC-416**

**B. C. A./B.SC. (IT)/B. COM. (H)/B. B. A./
B. A. (H) ENG./B. SC. (H) PHY./
B. SC. (H) MATH./B. B. A. LL. B. (H)
(FOURTH SEMESTER)**

**MID SEMESTER EXAMINATION, 2019
CAREER SKILLS**

Time : 1 : 30 Hours

Maximum Marks : 50

- Note :** (i) This question paper has 40 questions.
Attempt all questions. Each question
carries equal marks.
- (ii) It is compulsory to write the SET on the
OMR.
- (iii) Calculator is not allowed.
- (iv) Read the instructions carefully before
answering the questions.

1. A number when divided by 15, gives a remainder of 11. Find the remainder when twice the number is divided by 3 :

(a) 0
(b) 1
(c) 2
(d) Cannot be determined

2. Find the total number of factors of 72 :

(a) 12
(b) 10
(c) 8
(d) 6

3. How many numbers from 1 to 400 are divisible by both 3 and 7 but not by 42 ?

(a) 10
(b) 20
(c) 18
(d) 9

4. A pair of articles was bought for ₹ 37.40 at a discount of 15%. What must be the marked price of each of these articles ?

(a) ₹ 11
(b) ₹ 22
(c) ₹ 33
(d) ₹ 44

5. 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%

6. A Milkman mixes 20 litres of water to 120 litres of milk and sells it at cost price. Find the profit or loss % :

(a) 14.28% profit
(b) 16.66% profit
(c) 20% profit
(d) 25% profit

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7. The difference between the SI and the CI compounded half yearly on a certain sum of money at 16% per annum for 1 year is 512. Find the Principal :

(a) ₹ 80,000
(b) ₹ 40,000
(c) ₹ 20,000
(d) None of these

8. 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) 800000
(b) 900000
(c) 8000000
(d) None of these

9. Two numbers are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. Find the smallest number :

(a) 27
(b) 33
(c) 49
(d) 55

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10. Three numbers are in the ratio 3 : 4 : 5 and the sum of their squares is 1250. Find the sum of the three numbers :

(a) 30
(b) 50
(c) 60
(d) 90

11. A bag has 1 rupee, 50 paise and 25 paise coins in the ratio 3 : 4 : 4. If the number of coins in the bag is 220, find the value of all the 25 paise coins in the bag :

(a) 20
(b) 40
(c) 45
(d) Cannot be determined

12. ₹ 5,390 is divided into 3 parts such that half of the first part, one-third of the second part and one-sixth of the third part are in the ratio 2 : 3 : 6. Find the third part :

(a) ₹ 440
(b) ₹ 990
(c) ₹ 3,960
(d) ₹ 1,430

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13. 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

14. Find the HCF of $\frac{3}{15}$, $\frac{9}{8}$ and $\frac{3}{4}$:

(a) $\frac{3}{120}$

(b) $\frac{1}{40}$

(c) $\frac{3}{40}$

(d) None of these

15. Find the remainder when $1457 \times 2968 \times 1379$ is divided by 4 :

(a) 0

(b) 1

(c) 2

(d) 3

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16. Find the largest number that will divide 240, 282 and 303 to give the same remainder in each case :

(a) 4

(b) 21

(c) 7

(d) 14

17. 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%

18. 2 items are sold for ₹ 450 each, one at 15% profit and the other at 15% loss. Find the overall profit or loss % :

(a) 2.25% loss

(b) No Profit, No loss

(c) 15% loss

(d) None of these

19. A shopkeeper sells at 20% mark-up and uses a weight of 800 gms instead of 1 kg. Find the profit or loss % :

- (a) 45%
- (b) 50%
- (c) 40%
- (d) 35%

20. Find the difference between the simple interest and compound interest on ₹ 5,000 at 20% per annum compounded half yearly for 18 months :

- (a) ₹ 105
- (b) ₹ 130
- (c) ₹ 65
- (d) ₹ 155

21. If the CI in the 8th year is ₹ 750 and ₹ 840 in the 9th year. Find the interest received at the same rate on a Principal of ₹ 2,000 in the 2nd year :

- (a) ₹ 268.8
- (b) ₹ 240
- (c) ₹ 242.8
- (d) None of these

22. The difference between the SI and CI on a sum of ₹ 4,00,000 at R% per annum for 2 years is ₹ 1,000. What is the value of R ?

- (a) 10%
- (b) 5%
- (c) 8%
- (d) 12%

23. If a certain sum of money becomes 4 times itself in 8 years at SI, in how many years will it become 28 times itself ?

- (a) 56 years
- (b) 50 years
- (c) 72 years
- (d) 80 years

24. If the SI on a certain sum for 5 years is ₹ 800, while the CI on the same sum of money at the same rate for 2 years is ₹ 360, what is the rate % ?

- (a) 25%
- (b) 12.5%
- (c) 20%
- (d) 50%

25. A certain sum of money becomes 3 times itself in 5 years at CI. In how many years will it become 27 times itself?

- (a) 45 years
- (b) 65 years
- (c) 25 years
- (d) 15 years

26. The present ages of a father and son is 13 : 11. 9 years ago the ratio of their ages was 5 : 4. Find the difference in the father's present age and the son's age 5 years later :

- (a) 1 year
- (b) 2 years
- (c) 3 years
- (d) 4 years

27. 5 years ago, the ratio of the ages of a mother and daughter was 7 : 3. After 6 years, the ratio will be 16 : 10. Find the present ratio of their ages :

- (a) 3 : 2
- (b) 13 : 7
- (c) 4 : 3
- (d) 5 : 2

28. If $a/b = 1/3$, $b/c = 2$, $c/d = 1/2$, $d/e = 2$, $e/f = 1/4$, find the value of abc/def :

- (a) $3/8$
- (b) $27/8$
- (c) $3/4$
- (d) $27/4$

29. 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

30. 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

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31. 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
32. If all the mentioned values are increases, which among the following will lead to the maximum percentage change ?
- (a) 10%, 10%
(b) 19%, 1%
(c) 17%, 3%
(d) All of the above are equal
33. 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%

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34. In an examination where the total marks is 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%
35. 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
36. 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%

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37. A number when increased by 20% is 56 more than half of the number. Find the remainder when the number is divided by 3 :

- (a) 0
- (b) 1
- (c) 2
- (d) Cannot be determined

38. By what % is 75% of a number more than half the number ?

- (a) 25%
- (b) 50%
- (c) 100%
- (d) Cannot be determined

39. A reduction of 25% in the price of rice enables a man to purchase 4 kg more for ₹ 600. Find the original SP of rice in ₹/kg :

- (a) ₹ 37.50
- (b) ₹ 50
- (c) ₹ 40
- (d) None of these

(15) XBC-401....LNC-416(Set-B)

40. 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

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