

(40) BBA-406/.../TBS-406 (B)

99. The speed of two people is in the ratio 3 : 4. If the difference in the time taken to cover 750 m is 30 seconds, find the speed of the slower one in m/s :

- (a) 6.25 m/s
- (b) 8.33 m/s
- (c) 10 m/s
- (d) 16.66 m/s

100. Two trains travelling at 54 km/hr. and 90 km/hr. take 15 seconds to cross each other while moving in the opposite direction. If one of them is twice as long as the other, find the difference in their lengths :

- (a) 400 m
- (b) 200 m
- (c) 600 m
- (d) 100 m

BBA-406...TBS-406(B)

H

Roll No.

**BBA-406/MBH-405/
PBH-404/ESE-401/
BOV-405/XBC-401/
XBI-401/TBS-406 (B)**

**B. B. A./B. SC. (H) MATHS/
B. SC. (H) PHYSICS/B. A. (H)
ENGLISH/B. VOC./B. C. A./
B. SC. (IT)/B. SC. (CS)
(FOURTH SEMESTER)**

**END SEMESTER EXAMINATION,
June/July, 2022**

CAREER SKILLS

Time : Three Hours

Maximum Marks : 100

Instructions for candidates :

- (i) This question paper has 100 questions. Attempt all questions. Each question carries equal marks.

P. T. O.

(2) BBA-406/....TBS-406 (B)

(ii) It is compulsory to write the SET on the OMR.

(iii) Calculator is not allowed.

SET-B

1. If the simple interest for 9 years is ₹ 5,400 while the compound interest for 2 years compounded annually is ₹ 1,400; find the applicable rate percent :
 - (a) 33.33%
 - (b) 40%
 - (c) 25%
 - (d) 20%
2. A sum of money becomes 4 times itself in 7 years at compound interest. In how many years will it become 16 times itself ?
 - (a) 35 years
 - (b) 28 years
 - (c) 14 years
 - (d) None of the above

(3) BBA-406/....TBS-406 (B)

3. Find the difference between the simple interest and compound interest on a sum of ₹ 2,000 at the rate of 12% per annum for 1 year, CI being calculated half-yearly :
 - (a) ₹ 28.8
 - (b) ₹ 12
 - (c) ₹ 6.36
 - (d) ₹ 7.2
4. A sum of money becomes 3 times in 6 years at simple interest. In how many years will it become 9 times of itself ?
 - (a) 18 years
 - (b) 24 years
 - (c) 30 years
 - (d) 15 years
5. If the simple interest on a certain sum at 20% per annum for 2 years is ₹ 500, what will be the compound interest on the same sum at the same rate for the same time period ?
 - (a) ₹ 350
 - (b) ₹ 550
 - (c) ₹ 725
 - (d) ₹ 600

P. T. O.

(4) BBA-406/....TBS-406 (B)

6. A man invested a total of ₹ 10,000 out of which ₹ 4,000 was invested at R% and the rest at 5% higher rate of interest. If simple interest is applicable and the total simple interest at the end of 1 year is ₹ 2,000; find R :
- (a) 17%
 - (b) 20%
 - (c) 12.5%
 - (d) 21.25%
7. The difference in simple interest and compound interest on a certain sum of money in 3 years at 10% per annum is ₹ 372. Find the sum :
- (a) ₹ 8,000
 - (b) ₹ 9,000
 - (c) ₹ 10,000
 - (d) ₹ 12,000
8. A sum of money lent at compound interest for 2 years at 20% per annum would fetch ₹ 482 more, if the interest was payable half yearly than it was payable annually. Find the sum :
- (a) ₹ 10,000
 - (b) ₹ 20,000
 - (c) ₹ 40,000
 - (d) ₹ 80,000

(5) BBA-406/....TBS-406 (B)

9. On a sum of money, the simple interest for 2 years is ₹ 660, while the compound interest is ₹ 696.30, the rate of interest being the same in both the cases. Find the rate of interest :
- (a) 10%
 - (b) 11%
 - (c) 12%
 - (d) 13%
10. A certain sum amounts to ₹ 7,350 in 2 years and to ₹ 8,575 in 3 years. Find the sum :
- (a) ₹ 3,400
 - (b) ₹ 4,400
 - (c) ₹ 5,400
 - (d) ₹ 6,400
11. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is :
- (a) 6.06%
 - (b) 6.07%
 - (c) 6.08%
 - (d) 6.09%

P. T. O.

(6) BBA-406/....TBS-406 (B)

12. A certain sum of money becomes 3 times of itself in 25 years at compound interest. In how much time will it become 729 times of itself ?
- (a) 125 years
 - (b) 150 years
 - (c) 100 years
 - (d) 175 years
13. A certain sum of money becomes 4 times of itself in 6 years at simple interest. If the initial value is P, find the value after 30 years :
- (a) 15P
 - (b) 16P
 - (c) 17P
 - (d) 18P
14. If the compound interest received in the 8th year is ₹ 560 and the rate of interest is 5% per annum, find the compound interest received in the 10th year :
- (a) ₹ 617.4
 - (b) ₹ 588
 - (c) ₹ 616
 - (d) None of the above

(7) BBA-406/....TBS-406 (B)

15. By selling an article at ₹ 800, a shopkeeper makes a profit of 25%. At what price should he sell the article so as to make a loss of 25% ?
- (a) ₹ 460
 - (b) ₹ 480
 - (c) ₹ 500
 - (d) ₹ 520
16. A man sold two houses for ₹ 7.8 lakh each. On the one, he gained 5% and on the other, he lost 5%. What percent is the effect of the sale on the whole ?
- (a) 0.25% loss
 - (b) 0.25% gain
 - (c) 25% loss
 - (d) 25% profit
17. Profit after selling a commodity for ₹ 425 is same as loss after selling it for ₹ 355. The cost of the commodity is :
- (a) ₹ 385
 - (b) ₹ 390
 - (c) ₹ 395
 - (d) ₹ 400

P. T. O.

(8) BBA-406/....TBS-406 (B)

18. An article is sold at 25% profit. If the C.P. and S.P. of the article are increased by ₹ 60 and ₹ 30 respectively, the profit % decreases by 15%. Find the cost price of the article :
- (a) ₹ 190
(b) ₹ 240
(c) ₹ 285
(d) ₹ 305
19. A and B, there are two companies, selling the packs of cold drinks. For the same selling price A gives two successive discounts of 10% and 25%. While B sells it by giving two successive discounts of 15% and 20%. What is the ratio of their marked price ?
- (a) 143 : 144
(b) 19 : 11
(c) 136 : 135
(d) 73 : 77

(9) BBA-406/....TBS-406 (B)

20. A man bought a horse for a certain sum and sold it, at a loss of 8% on his outlay. If he had received ₹ 1,800 more, he would have gained $14\frac{1}{2}\%$ on his outlay. What did the horse cost ?
- (a) ₹ 3,500
(b) ₹ 5,000
(c) ₹ 6,000
(d) ₹ 8,000
21. A man sold an item at 10% loss. If he had sold for ₹ 50 more, he would have made a profit of 10%. At what price it should be sold to get a profit of 50% ?
- (a) ₹ 250
(b) ₹ 400
(c) ₹ 375
(d) ₹ 600
22. A trader sells an item at a mark up of 20% and uses a weight of 800 grams instead of 1 kg. Find the overall profit or loss % :
- (a) 25% profit
(b) 45% profit
(c) 20% loss
(d) 50% profit

P. T. O.

(10) BBA-406/....TBS-406 (B)

23. An item is usually sold for ₹ 600 leading to a profit of 20%. If the desired profit % needs to be 1.5 times the usual value, what is the new selling price ?
- (a) ₹ 650
(b) ₹ 900
(c) ₹ 750
(d) None of the above
24. A trader uses false weight and makes a profit of 40%. If he sells at a mark up of 20% less and sold it for ₹ 50 more, his profit would have been 60%, find the cost price of the item :
- (a) ₹ 625
(b) ₹ 575
(c) ₹ 600
(d) ₹ 675
25. A merchant uses false weight and makes a profit of 40%. If he sells at a mark up of 20%, what is the false weight that he uses instead of 1000 grams ?
- (a) 750 gm
(b) 833.33 gm
(c) 857.1 gm
(d) 800 gm

(11) BBA-406/....TBS-406 (B)

26. Water is added to pure milk and sold at cost price resulting in a profit of 25%. What is the fraction of water in the solution ?
- (a) $\frac{1}{4}$
(b) $\frac{1}{6}$
(c) $\frac{1}{5}$
(d) $\frac{1}{7}$
27. A man purchased 20 kg of rice for ₹ 450 and sold it a profit of as much money as he received for 5 kg. Find the profit % :
- (a) 25%
(b) 20%
(c) 33.33%
(d) 42.42%
28. A man purchased 60 markers from the market. He sold some of them at 8% loss and the remaining at 12% profit resulting in an overall profit of 10%. How many markers were sold at profit ?
- (a) 6
(b) 10
(c) 54
(d) 50

P. T. O.

(12) BBA-406/....TBS-406 (B)

29. A leak can empty a completely filled tank in 7 hours but it takes 2 hours more because of a pipe being open. If there is another pipe which alone can fill the tank in 21 hours, in how much time both the pipes working together can fill the tank ?

(a) $63/4$ hours

(b) 21 hours

(c) $63/5$ hours

(d) 31.5 hours

30. If 35 men can finish a work in 27 days working 8 hours everyday, in how many days can 63 boys do the same work working for 9 hours everyday given that 1 man is equivalent to 3 boys ?

(a) 40 days

(b) 20 days

(c) 60 days

(d) 45 days

(13) BBA-406/....TBS-406 (B)

31. A can do a work in 12 days, B in 18 days and C in 24 days. In how many days can all three of them together do the work if B and C when working with A work at half of their individual efficiencies ?

(a) $72/19$ days

(b) $144/19$ days

(c) 36 days

(d) 72 days

32. B is twice as good as A and together they can finish a work in 15 days. In how many days can B working at 75% of his efficiency finish half the work ?

(a) 24 days

(b) 30 days

(c) 15 days

(d) 20 days

33. If 15 men or 20 women or 30 boys can do a work in 112 days working 8 hours per day,

P. T. O.

(14) BBA-406/....TBS-406 (B)

how many women will be required to work with 45 men and 15 boys so that the same work is completed in 16 days working 4 hours per day ?

(a) 210

(b) 105

(c) 420

(d) 90

34. A pipe can fill a tank completely in 10 hours but it takes 2 hours more due to a leak. If a second pipe which is half the efficiency of the first one is opened and the first pipe is closed, in how much time will the second pipe along with the leak be able to fill half the tank ?

(a) 30 hours

(b) 15 hours

(c) 10 hours

(d) 20 hours

(15) BBA-406/....TBS-406 (B)

35. A can fill an empty tank in 12 hours while B can empty the tank in 10 hours. If both are operational in alternate hours with A beginning, when will the tank get empty ?

(a) 111 hours

(b) 121 hours

(c) 120 hours

(d) None of the above

36. A labour contract camp had food for 80 men which was to last 120 days. After $\frac{1}{4}$ th of the time 20 men left the camp. What is the total number of days that the food will now last ?

(a) 120 days

(b) 150 days

(c) 90 days

(d) 80 days

37. Pipe 1 can fill a tank in 20 hours, pipe 2 can fill the same tank in 12 hours while a leak at the bottom can empty the tank in 15 hours.

P. T. O.

(16) BBA-406/....TBS-406 (B)

Initially, all three are open for 2 hours. Then pipe 1 is closed. After another 2 hours, the leak is also closed. What is the total time taken for the tank to get filled ?

- (a) 10 hours
- (b) 12 hours
- (c) 14 hours
- (d) 20 hours

38. A, B and C can do a work in 15, 25 and 30 days, respectively. They work in such a manner that one person works on each day in the order A - B - C - A - B - C, when will the work get completed ?

- (a) 21 days
- (b) 21 and $\frac{3}{10}$ days
- (c) 24 days
- (d) 22 and $\frac{3}{5}$ days

(17) BBA-406/....TBS-406 (B)

39. A and B can do a work in 24 days, B and C in 36 days while A, B and C can do it in 18 days. In how many days can A and C do the work ?

- (a) 32 days
- (b) 20 days
- (c) 28 days
- (d) 24 days

40. A can do a piece of work in 36 days, B in 54 days and C in 72 days. All three began the work together but A left 8 days and B 12 days before the completion of the work. For how many days in all did C work ?

- (a) 24 days
- (b) 28 days
- (c) 32 days
- (d) 36 days

41. A contractor undertook to finish a job in 30 days and employed 50 men to work for 6 hours every day to finish the work as planned. After 20 days, only 60% of the work

P. T. O.

(18) BBA-406/....TBS-406 (B)

was completed. How many more hours should they work in order to finish the work on time ?

- (a) 8 hours
- (b) 2 hours
- (c) 4 hours
- (d) 6 hours

42. A and B can do a work in Y days. A alone will take 16 days more to the same work while B alone will take 25 days more to do the same work. Find the value of Y :

- (a) 20 days
- (b) 36 days
- (c) 45 days
- (d) None of the above

43. A can do a work alone in 20 days and with the help of B in 15 days. If C alone can do the work in 30 days, in how many days can B and C do the work together ?

- (a) 20 days
- (b) 5 days
- (c) 15 days
- (d) 10 days

(19) BBA-406/....TBS-406 (B)

44. If the number $97215 * 6$ is completely divisible by 11, then the smallest whole number in place of * will be :

- (a) 3
- (b) 2
- (c) 1
- (d) 5

45. The least number, which when divided by 12, 16 and 27 leaves in each case of remainder of 5 is :

- (a) 330
- (b) 268
- (c) 437
- (d) None of the above

46. Find the lowest common multiple of 20, 24 and 70.

- (a) 770
- (b) 650
- (c) 800
- (d) 840

P. T. O.

(20) BBA-406/.../TBS-406 (B)

47. The L.C.M. of two numbers is 495 and their H.C.F. is 5. Then the product of the numbers is :

- (a) 85
- (b) 99
- (c) 75
- (d) 125

48. Find the smallest number which gives leaves 22, 35, 48 and 61 as remainders when divided by 26, 39, 52 and 65 respectively :

- (a) 760
- (b) 776
- (c) 766
- (d) 780

49. If an integer is divisible by 6 and 9, then the integer must be divisible by which of the following numbers ?

- (a) 12
- (b) 18
- (c) 24
- (d) 35

(21) BBA-406/.../TBS-406 (B)

50. The greatest number of four digit which is divisible by 15, 25, 40 and 75 is :

- (a) 9600
- (b) 9000
- (c) 9400
- (d) 9800

51. 6 bells commence tolling together and toll at intervals 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes how many times they toll together ?

- (a) 4
- (b) 10
- (c) 15
- (d) 16

52. Find the total number of factors of 15120 :

- (a) 30
- (b) 50
- (c) 80
- (d) 70

(22) BBA-406/....TBS-406 (B)

53. What is the greatest number that will divide 1204, 3664 and 5904 leaving the same remainder ?

- (a) 15
- (b) 14
- (c) 13
- (d) 20

54. How many pairs of numbers exist whose H.C.F. is 12 and L.C.M. is 1728 ?

- (a) 0
- (b) 1
- (c) 2
- (d) None of the above

55. Find the last digit of the expression :

$$9764 \wedge 8642 + 8653 \wedge 9876 * 3568 \wedge 2367 - 1256 \wedge 7890$$

- (a) 2
- (b) 8
- (c) 6
- (d) 4

(23) BBA-406/....TBS-406 (B)

56. The total number of integers between 100 and 200, which are divisible by both 6 and 9, is :

- (a) 7
- (b) 8
- (c) 5
- (d) 6

57. What will be the remainder when 7^{343} is divided by 800 ?

- (a) 1
- (b) 7
- (c) 49
- (d) 343

58. The ratio of the present ages of a father and son is 5 : 3. If the average age of the father, mother and son three years ago was 35 and the present age of the mother is 34 years, what is the present age of the son ?

- (a) 20 years
- (b) 35 years
- (c) 30 years
- (d) None of the above

P. T. O.

59. A can beat B by 15 points in a 60 point game and can beat C by 20 points in a 60 point game. By how many points can B beat C in a game of 270 points ?
- 5 points
 - 30 points
 - 20 points
 - 25 points
60. A bag has 1 rupee, 50 paisa and 25 paisa coins in the ratio 1 : 6 : 4. If the value of all the coins in the bag is ₹ 1,100; find the number of 25 paisa coins in the bag :
- 880
 - 400
 - 110
 - 220
61. Five years ago, the ratio of the ages of a father and daughter is 5 : 3 and their total age is 64 years. What will be the ratio of their ages after three years ?
- 2 : 3
 - 1 : 3
 - 3 : 2
 - 43 : 27

62. The ratio of the children in three different sections A, B and C in a school is 2 : 3 : 4 respectively. If the number of children in sections A and C increase by 20% while those in section B decrease by 10%, find the new ratio of the number of children in sections A, B and C :
- 8 : 9 : 16
 - 2 : 3 : 4
 - 4 : 5 : 6
 - None of the above
63. If A can beat B by 20 m in a 100 m race and can beat C by 50 m in a 200 m race, by how many metres can B beat C in a race of 500 m ?
- 25 m
 - 31.25 m
 - 10 m
 - 50 m

(26) BBA-406/....TBS-406 (B)

64. If $a : b = 2 : 3$, $b : c = 1/2 : 1$ and $c : d = 3 : 1$, find the value of $ab : cd$:

(a) 2 : 1

(b) 1 : 3

(c) 3 : 4

(d) 1 : 2

65. The ratio of Sara's age 4 years ago and Vaishali's age after 4 years is 1 : 1. Presently, the ratio of their ages is 5 : 3. Find the ratio between Sara's age 4 years hence and Vaishali's age 4 years ago :

(a) 1 : 3

(b) 3 : 1

(c) 4 : 3

(d) 3 : 4

66. The ratio of the number of boys to girls in a class is 5 : 3. On dividing certain number of cookies such that each student got the same number of cookies, the teacher was always left

(27) BBA-406/....TBS-406 (B)

with two cookies. Which among the following cannot be the number of cookies that the teacher had ?

(a) 26

(b) 42

(c) 17

(d) 66

67. A started a business with a capital of ₹ 5,000.

After few months, B joined with a capital of ₹ 7,000. The profit at the end of the year was ₹ 2,000 out of which ₹ 400 was the expense incurred. If the remaining profit got divided between A and B in the ratio 12 : 7, then after how many months of start did B join the business ?

(a) 5

(b) 7

(c) 4

(d) 6

P. T. O.

(28) BBA-406/....TBS-406 (B)

68. ₹ 20,000 was divided between A, B and C such that if ₹ 1,000; ₹ 2,000 and ₹ 3,000 is deducted from their shares, the remaining amounts were in the ratio 1 : 2 : 4. Find the share received by B :

(a) ₹ 6,000

(b) ₹ 4,000

(c) ₹ 5,500

(d) None of the above

69. A, B and C invest ₹ 5,000; ₹ 4,000 and ₹ 8,000 to start a business. If at the end of a year, 5% of the total profits of ₹ 1,00,000 go to charity and 10% as the annual salary to A, find the share of C in the annual profits :

(a) ₹ 45,000

(b) ₹ 40,000

(c) ₹ 50,000

(d) None of the above

(29) BBA-406/....TBS-406 (B)

70. A bag contains 25 paise, 50 paise and 1 rupee coins in the ratio 4 : 2 : 5. If the total value of all the coins in the bag is ₹ 770, then find the value of all the 25 paise and 50 paise coins in the bag :

(a) ₹ 220

(b) ₹ 70

(c) ₹ 110

(d) ₹ 140

71. Three people A, B and C were paid in the ratio 4 : 5 : 6, respectively for doing a job. If the difference between the maximum amount and the minimum amount got by any two of them is ₹ 300, then what is the total amount got by B for doing the job ?

(a) ₹ 750

(b) ₹ 600

(c) ₹ 2,250

(d) ₹ 150

P. T. O.

(30) BBA-406/....TBS-406 (B)

72. For a candidate to clear an examination, he must score 55% marks. If he gets 120 marks and fails by 78 marks, then total marks for the examination is :

- (a) 300
- (b) 320
- (c) 360
- (d) 400

73. If Harish height is 30% less than that of Manu, how much percentage Manu height is more than that of Harish ?

- (a) 42.84%
- (b) 42.68%
- (c) 42.83%
- (d) 42.8%

74. 50% of a number is 18 less than two-third of that number. Find the number :

- (a) 123
- (b) 119
- (c) 115
- (d) 108

(31) BBA-406/....TBS-406 (B)

75. The value of a machine depreciates at the rate of 10% per annum. If the cost of machine at present is ₹ 1,60,000, then what will be its worth after 2 years ?

- (a) ₹ 1,22,365
- (b) ₹ 1,53,680
- (c) ₹ 1,29,600
- (d) ₹ 1,19,600

76. The price of diesel increases by 50%. Find by how much percent a truck owner must reduce his consumption in order to maintain the same budget ?

- (a) 11.11%
- (b) 22.22%
- (c) 33.33%
- (d) 44.44%

77. In an examination P scored 30% marks and failed by 15 marks. Q scored 40% marks and obtained 35 marks more than those required to pass. Find the pass percentage :

- (a) 30%
- (b) 33%
- (c) 35%
- (d) 40%

P. T. O.

78. There were two candidates in an election. Winner candidate received 62% of the votes and won the election by 288 votes. Find the number of votes casted to the winning candidate :
- (a) 456
 - (b) 744
 - (c) 912
 - (d) 1200
79. A man spends 10% of his income on house rent, 20% of the rest on his children's education, 25% of the rest in miscellaneous causes. If he now possesses ₹ 1,944, then his income is :
- (a) ₹ 3,600
 - (b) ₹ 4,000
 - (c) ₹ 4,500
 - (d) ₹ 3,000
80. In an election only two candidates contested. A candidate secured 70% of the valid votes and won by a majority of 172 votes. Find the total number of valid votes :
- (a) 430
 - (b) 570
 - (c) 480
 - (d) 520

81. The tax on a commodity is diminished by 20% and its consumption is increased by 15%. The effect on revenue is :
- (a) 8% increase
 - (b) 8% decrease
 - (c) No change
 - (d) 10% decrease
82. A and B's salaries together amount to ₹ 2,000. A spends 95% of his salary and B spends 85% of his salary. If now their savings are same, what is A's salary ?
- (a) ₹ 500
 - (b) ₹ 750
 - (c) ₹ 1,250
 - (d) ₹ 1,500
83. Two tests had the same maximum marks. The pass percentage in the first and second test were 40% and 45% respectively. A candidate scored 216 marks in the second test and failed

6
(34) BBA-406/....TBS-406 (B)

by 36 marks in that test. Find the pass marks in the first test :

- (a) 136
- (b) 128
- (c) 164
- (d) None of the above

84. On decreasing the price of TV sets by 30% its sale increased by 20%. What is the effect on the revenue received by the shopkeeper ?

- (a) 10% increase
- (b) 10% decrease
- (c) 16% increase
- (d) 16% decrease

85. The length of a rectangle is increased by 60%. By what percent would the width have to be decreased to maintain the same area ?

- (a) 37.5%
- (b) 60%
- (c) 75%
- (d) None of the above

7
(35) BBA-406/....TBS-406 (B)

86. A train of length 120 m long takes 10 seconds to cross a platform twice its length. In how much time will it cross a man moving in the opposite direction at 4 m/s ?

- (a) 3 sec
- (b) 4 sec
- (c) 3.33 sec
- (d) 5 sec

87. A man on a cycle can see a person walking 15 m ahead of him in the same direction at 3 m/s. If he overtakes the person on foot in 7.5 seconds, find the speed of the man on the cycle :

- (a) 2 m/s
- (b) 5 m/s
- (c) 6 m/s
- (d) None of the above

88. A person normally takes 30 minutes to cover a particular distance. Having increased the speed by X% today, he was able to cover the same distance in 20 minutes. What is the value of X ?

- (a) 50%
- (b) 40%
- (c) 66.66%
- (d) 30%

P. T. O.

(36) BBA-406/....TBS-406 (B)

89. A train of length 120 m and travelling at 25 m/s completely crosses another train 50% more than its length coming from the opposite direction in 5 seconds. Find the speed of the second train :
- (a) 25 m/s
 - (b) 60 m/s
 - (c) 35 m/s
 - (d) 20 m/s
90. A man rows a boat to a place 24 km away and back. If the speed of the stream is 1 km/hr. and it took him 10 hours for the whole journey, find the time taken for the upstream journey :
- (a) 5 hours
 - (b) 6 hours
 - (c) 4 hours
 - (d) 8 hours
91. A person travels one-third of a distance at 20 km/hr., one-fifth at 30 km/hr. and the remaining at 40 km/hr. Find the average speed for the journey :
- (a) 7.14 km/hr.
 - (b) 14.28 km/hr.
 - (c) 28.56 km/hr.
 - (d) 35.7 km/hr.

(37) BBA-406/....TBS-406 (B)

92. A train of length 200m crosses a platform 100 m long in 5 seconds. In how much time can the train cover a journey of 216 km ?
- (a) 1 hour
 - (b) 6 hours
 - (c) 9 hours
 - (d) 12.96 hours
93. If a person travels at $\frac{7}{5}$ of his normal speed today, he is able to reach his destination 10 minutes early. How much time did he take today for the journey ?
- (a) 25 min.
 - (b) 35 min.
 - (c) 14 min.
 - (d) $50\frac{7}{7}$ min.
94. On a straight road, a car is travelling at 72 km/hr. can see a bus coming from the opposite direction. The initial distance between the two vehicles is 120 m. After 5 seconds,

P. T. O.

(38) BBA-406/....TBS-406 (B)

they are 50 m away from each other moving in the opposite direction. Find the speed of the bus :

- (a) 34 m/s
- (b) 15 m/s
- (c) 20 m/s
- (d) 14 m/s

95. The speed of a boat in still water is 7 km/hr. and the speed of the stream is 2 km/hr. If the boat travels a distance of 35 km upstream, what is the distance covered by the boat in the same time while going downstream ?

- (a) 49 km
- (b) 54 km
- (c) 63 km
- (d) 81 km

96. R and S start from A to go towards B and come back to A. The distance AB is 8 km. While R starts at 10 A.M. at a speed of 4 km/hr., S starts

(39) BBA-406/....TBS-406 (B)

at 10 : 30 A.M. at a speed of 8 km/hr. When will they meet for the second time ?

- (a) 11.40 A.M.
- (b) 11.30 A.M.
- (c) 11.45 A.M.
- (d) None of the above

97. A train travelling at 90 km/hr. overtakes a man coming from the opposite direction at 5 m/sec in 20 seconds. In 30 seconds, it crosses a platform of length p . Find the value of p :

- (a) 200 m
- (b) 75 m
- (c) 150 m
- (d) None of the above

98. The speed of a boat in still water is 5 km/hr. If the boat is able to cover a distance of 35 km in 5 hours while going downstream, how much time will a log of wood take to cover the same distance while going downstream ?

- (a) 7 hours
- (b) 10 hours
- (c) 17.5 hours
- (d) Cannot be determined

P. T. O.