

Question Paper – I

Time: 90 minutes

Marks: 100

Study the following information carefully to answer these questions.

Eight friends P, M, R, T, Q, U, V & W are sitting in two opposite rows, facing each other. Each row has 4 persons. P is between U and V and is facing north. W is opposite to Q who is to the immediate left of M. R is between T and M. W is to the immediate right of V.

1. Which of the following pairs has the person sitting opposite each other?
 - a) MV
 - b) RV
 - c) TV
 - d) UR
2. Who is to the immediate right of R?
 - a) M
 - b) U
 - c) M or T
 - d) None of these
3. Four of the following five are alike in a certain way on the basis of their positions and so form a group. Which is the one that does not belong to the group?
 - a) TP
 - b) RV
 - c) QP
 - d) QV
4. Which of the following pairs of persons has second person sitting to the immediate left of the first person?
 - a) UP
 - b) VP
 - c) QM
 - d) RT
5. Who is sitting opposite of R?
 - a) U
 - b) Q
 - c) V
 - d) P

Study the following information and answer the questions (6-10) based on the information.

There are five persons P, Q, R, S and T. One is football player, one is chess player and one is hockey player. P and S are unmarried ladies and do not participate in any game. None of the ladies plays chess or football. There is a married couple in which T is the husband. Q is the brother of R and is neither a chess player nor a hockey player.

6. Who is the football player?

- a) P
- b) Q
- c) R
- d) S

7. Who is the hockey player?

- a) P
- b) Q
- c) R
- d) S

8. Who is the chess player?

- a) P
- b) Q
- c) R
- d) T

9. Who is the wife of T?
a) P
b) Q
c) R
d) S

10. The three ladies are
a) P, Q, R
b) Q, R, S
c) P, Q, S
d) P, R, S

11. Some boys are sitting in a row. P is sitting 14th from the left and Q is 7th from right. If there are four boys between P and Q, how many boys are there in the row?
a) 19
b) 21
c) 25
d) 23

12. If E replaced by 2, Or by 5, T by 7, D by 3, S by 4, I by 6 and N by 9 then how is **RESIDENT** written if its letters are reversed?
a) 79326425
b) 79236425
c) 52463927
d) 54263927

13. Deepak is brother of Ravi. Reka is sister of Atul. Ravi is the son of Reka. How is Deepak related to Reka?
a) Son
b) Brother
c) Nephew
d) Father

14. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:
a) 150°
b) 145°
c) 160°
d) 155°

15. How many times do the hands of a clock coincide in a day?
a) 20
b) 21
c) 22
d) 24

Study the following arrangement carefully and answer the questions(16-19) given below:

6 1 9 2 5 9 2 4 2 6 2 5 8 5 7 4 5 2 8 3 5 1 2 3 1 4 1 4 6 8 3 7 3 9

16. If all the even digits are deleted from the above arrangement, which of the following will be seventh from the left end of the arrangement?
a) 9
b) 5
c) 1
d) 7

17. How many 2 are there in the above arrangement each of which is immediately preceded as well as immediately followed by an odd digit?
a) None
b) One
c) Two
d) Three

18. How many 5 are there in the above arrangement, each of which is immediately preceded by a digit which has a numerical value of more than five?
a) None
b) One

c) Two
d) Three

19. Which of the following are eight to the right of the nineteenth digit from the right end of the above arrangement?
a) 2
b) 5
c) 3
d) 7

Study the table carefully to answer the following information carefully and answer the questions(20-24).

Number of animals in grassland of four different countries in five different years

Year	Country											
	South Africa			China			Sri Lanka			England		
	Tiger	Lion	Bear	Tiger	Lion	Bear	Tiger	Lion	Bear	Tiger	Lion	Bear
1990	145	156	250	320	346	436	280	468	255	423	342	234
1995	134	165	354	445	256	542	354	354	343	368	136	345
2000	120	135	324	583	325	454	433	345	545	354	267	456
2005	110	184	285	466	475	322	343	324	546	562	235	567
2010	160	224	264	411	535	534	535	532	453	349	345	324

20. What was the average number of tigers in grassland of Sri Lanka over all the year together?
a) 386
b) 389
c) 369
d) 276

21. What was the difference between the total number of lions and bear in the grassland of England in the year 2005 and the number of tigers in the grassland of South Africa in the year 1995?
a) 597
b) 558
c) 677
d) 668

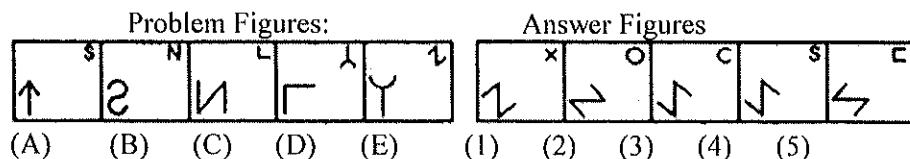
22. Total number of animals together in grassland of China in the year 1990 was approximately what percent of total number of bears in the grassland of Sri Lanka over all the years together?
a) 44
b) 56
c) 41
d) 51

23. If 35 percent of the total number of animals in the grassland of China in the year 2010 died due to an epidemic, how many animals remained in the grassland of China in the year 2010?
a) 976
b) 952
c) 986
d) 962

24. What was three-fourth of the total number of lions in the grassland of all the four countries in the year 2000 together?
a) 848
b) 868
c) 804
d) 824

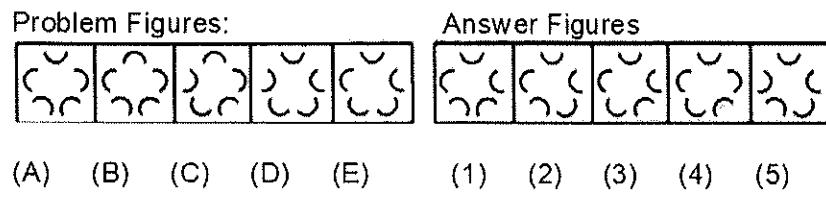
Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

25.



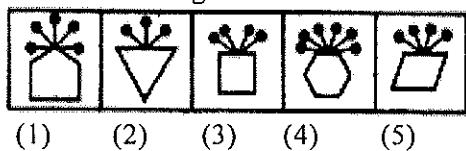
- a) 1
- b) 2
- c) 3
- d) 4

26.



- a) 1
- b) 2
- c) 3
- d) 4

27. Choose the figure which is different from the rest.



- a) 1
- b) 2
- c) 3
- d) 4

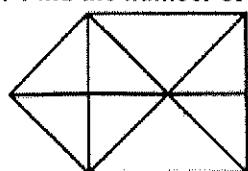
28. Choose the alternative which is closely resembles the mirror image of the given combination

T A R A I N 1 0 1 4 A

(1) А Т О И Н А Я Р А Т
 (2) А Г О И Н А Я Р А Т
 (3) А Г О И А Т А Я Р А И
 (4) А Г О И Н А Я Р А Т

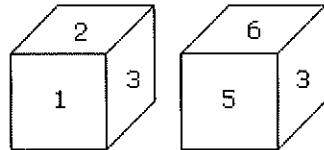
- a) 1
- b) 2
- c) 3
- d) 4

29. Find the number of triangles in the given figure.



- a) 15
- b) 16
- c) 17
- d) 18

30. Two positions of a dice are shown below: Which digit will appear to the opposite side face to 3



- a) 1
- b) 5
- c) 6
- d) 4

Find the statement that must be true according to the given information for the questions given below:(31-34)

31. Vincent has a paper route. Each morning, he delivers 37 newspapers to customers in his neighborhood. It takes Vincent 50 minutes to deliver all the papers. If Vincent is sick or has other plans, his friend Thomas, who lives on the same street, will sometimes deliver the papers for him.

- a) Vincent and Thomas live in the same neighborhood.
- b) It takes Thomas more than 50 minutes to deliver the papers.
- c) It is dark outside when Vincent begins his deliveries.
- d) Thomas would like to have his own paper route.

32. In weekends, Mr. Sanchez spends many hours working in his vegetable and flower gardens. Mrs. Sanchez spends her free time reading and listening to classical music. Both Mr. Sanchez and Mrs. Sanchez like to cook.

- a) Mr. Sanchez enjoys planting and growing vegetables.
- b) Mr. Sanchez does not like classical music.
- c) Mrs. Sanchez cooks the vegetables that Mr. Sanchez grows.
- d) Mrs. Sanchez enjoys reading nineteenth century novels.

33. The school principal has received complaints from parents about bullying in the school yard during recess. He wants to investigate and end this situation as soon as possible, so he has asked the recess aides to watch closely. Which situation should the recess aides report to the principal?

- a) Girl is sitting glumly on a bench reading a book and not interacting with her peers.
- b) Four girls are surrounding another girl and seem to have possession of her backpack.
- c) Two boys are playing a one-on-one game of basketball and are arguing over the last basket scored.
- d) Three boys are huddled over a handheld video game, which isn't supposed to be on school grounds.

34. Rita, an accomplished pastry chef who is well known for her artistic and exquisite wedding cakes, opened a bakery one year ago and is surprised that business has been so slow. A consultant she hired to conduct market research has reported that the local population doesn't think of her shop as one they would visit on a daily basis but rather a place they'd visit if they were celebrating a special occasion. Which of the following strategies should Rita employ to increase her daily business?

- a) Making coupons available that entitle the coupon holder to receive a 25% discount on wedding, anniversary, or birthday cakes
- b) Exhibiting at the next Bridal Expo and having pieces of one of her wedding cakes available for tasting
- c) Placing a series of ads in the local newspaper that advertise the wide array of breads
- d) Moving the bakery to the other side of town

In the following questions (35-38), there is a statement and TWO assumptions given. Which of the assumptions are implicit based on the statement:

35. Statement: "You are hereby appointed as a programmer with a probation period of one year and your performance will be reviewed at the end of the period for confirmation." - A line in an appointment letter.

Assumptions:

- I. The performance of an individual generally is not known at the time of appointment offer.
- II. Generally an individual tries to prove his worth in the probation period.

- a) Only assumption I is implicit
- b) Only assumption II is implicit
- c) Neither I nor II is implicit
- d) Both I and II are implicit

36. Statement: It is desirable to put the child in school at the age of 5 or so.

Assumptions:

- I. At that age the child reaches appropriate level of development and is ready to learn.
- II. The schools do not admit children after six years of age.
 - a) Only assumption I is implicit
 - b) Only assumption II is implicit
 - c) Neither I nor II is implicit
 - d) Both I and II are implicit

37. Statement: Unemployment allowance should be given to all unemployed Indian youth above 18 years of age.

Assumptions:

- I. There are unemployed youth in India who needs monetary support.
- II. The government has sufficient funds to provide allowance to all unemployed youth.
 - a) Only assumption I is implicit
 - b) Only assumption II is implicit
 - c) Neither I nor II is implicit
 - d) Both I and II are implicit

38. Statement: The State government has decided to appoint four thousand primary school teachers during the next financial year.

Assumptions:

- I. There are enough schools in the state to accommodate four thousand additional primary school teachers.
- II. The eligible candidates may not be interested to apply as the government may not finally appoint such a large number of primary school teachers.
 - a) Only assumption I is implicit
 - b) Only assumption II is implicit
 - c) Either I or II is implicit
 - d) Both I and II are implicit

39. Arrange the words given below in a meaningful sequence.

1. Word	2. Paragraph	3. Sentence
4. Letters	5. Phrase	

- a) 4, 1, 5, 2, 3
- b) 4, 1, 3, 5, 2
- c) 4, 2, 5, 1, 3
- d) 4, 1, 5, 3, 2

40. Arrange the words given below in a meaningful sequence.

1. Police	2. Punishment	3. Crime
4. Judge	5. Judgement	

- a) 3, 1, 2, 4, 5
- b) 1, 2, 4, 3, 5
- c) 5, 4, 3, 2, 1
- d) 3, 1, 4, 5, 2

41. Arrange the words given below in a meaningful sequence.

1. Nation	2. Village	3. City
4. District	5. State	

- a) 2, 3, 4, 5, 1
- b) 2, 3, 4, 1, 5
- c) 1, 3, 5, 4, 2
- d) 1, 2, 3, 4, 5

42. Which terms comes next in the series: YEB, WFD, UHG, SKI, ...?

- a) QOL
- b) QCL
- c) TOL
- d) QNL

43. What comes next: DEF,HIJ,MNO,?

- a) STU
- b) RST
- c) RTV
- d) SRQ

44. If in a certain language, MADRAS is coded as NBESBT, then how BOMBAY will be coded in the language

- a) CPNCBX
- b) CPNCBZ
- c) CPOCBZ
- d) CQOCBZ

45. If GIVE is coded as 5137 and BAT is coded as 924, then how GATE is coded?

- a) 5427
- b) 5724
- c) 5247
- d) 2547

46. In a certain code ORIENT is written as 532146 and SOUL is written as 7598. How is LINE is written in that code?

- a) 9241
- b) 8341
- c) 8241
- d) 6241

47. In a certain code, JEALOUS is written as BFKKTVP. How is HEARTEN written in that code?

- a) OFUQBFI
- b) BFIQOFU
- c) BFIQUFO
- d) UFOQIBF

48. If EARN is related to RANE and BOND is related to NODB, then in the same way TEAR is related to

- a) AERT
- b) ATRE
- c) ARET
- d) REAT

49. Consider five people A, B, C, D and E each having different age. A is younger than only B. C is older than D. D is not the youngest. Who amongst the following are older than C?

- a) Only A and B
- b) Only E, B and A
- c) Only A and E
- d) Only E and B

50. In a row of children facing north, A stand 15th from the left and B stands 9th from the left. C who stands exactly between A and B are 7th from the right. What is the total number of children standing in the row?

- a) 21
- b) 18
- c) 17
- d) 19

51. At what angle are the hands of a clock inclined at 50 minutes past 8?

- a) 15°
- b) $22 \frac{1}{2}^\circ$
- c) 25°
- d) 45°

52. Pradeep correctly remembers that he visited Chennai before twelfth of July but after eight of July. His friend correctly remembers that Pradeep visited Chennai after tenth of July not after fourteenth of July. On which day of July did Pradeep visit Chennai?

- a) Eleventh
- b) Twelfth
- c) Tenth
- d) Either tenth or eleventh

53. In a class two-third of the students play football, half of the remaining play both football and cricket and ten students play only cricket. How many students play both football and cricket?

- a) 30
- b) 10
- c) 40
- d) 20

54. One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

- a) East
- b) South
- c) West
- d) Data is inadequate

55. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

- a) 7
- b) 10
- c) 12
- d) 13

56. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?

- a) 12
- b) 14
- c) 27
- d) 53

Please read the below passages (57-65) and mark your answer which best support the passage:

57. The attainment of individual and organisational goals is mutually interdependent and linked by a common denominator - employee work motivation. Organisational members are motivated to satisfy their personal goals, and they contribute their efforts to the attainment of organizational objectives as means of achieving these personal goals.

- a) Encourages an individual to give priority to personal goals over organisational goals.
- b) Is crucial for the survival of an individual and organisation.
- c) Is the product of an individual's physical and mental energy?
- d) Is the external force which induces an individual to contribute his efforts?

58. Due to enormous profits involved in smuggling, hundreds of persons have been attracted towards this anti-national activity. Some of them became millionaires overnight. India has a vast coastline both on the Eastern and Western Coast. It has been a heaven for smugglers who have been carrying on their activities with great impunity. There is no doubt, that from time to time certain seizures were made by the enforcement authorities, during raids and ambush but even allowing these losses the smugglers made huge profits.

- a) Smuggling hampers the economic development of a nation.
- b) Smuggling ought to be curbed.
- c) Authorities are taking strict measures to curb smuggling.
- d) Smuggling is fast increasing in our country owing to the quick profit it entails.

59. Though the waste of time or the expenditure on fashions is very large, yet fashions have come to stay. They will not go, come what may. However, what is now required is that strong efforts should be made to displace the excessive craze for fashion from the minds of these youngsters.

- a) Fashion is the need of the day.
- b) The excessive craze for fashion is detrimental to one's personality.
- c) The hoard for fashion should be done away with so as not to let down the constructive development.
- d) Work and other activities should be valued more than the outward appearance.

60. One of the important humanitarian by-products of technology is the greater dignity and value that it imparts to human labour. In a highly industrialized society, there is no essential difference between Brahmin and Dalit, Muslim and Hindu; they are equally useful and hence equally valuable for in the industrial society individual productivity fixes the size of the pay cheque and this fixes social status.

- a) technology decides individual's social status.
- b) castes and religions are man-made.

c) human labour has dignity and value.
 d) all individuals, irrespective of caste and creed, are born equal.

61. The future of women in India is quite bright and let us hope that they will justify their abilities by rising to the occasion. Napoleon was right when he declared that by educating the women we can educate the whole nation. Because a country can never rise without the contribution of 50% of their population.

a) India is striving hard for the emancipation of women.
 b) all women should be well educated.
 c) a nation can progress only when women are given equal rights and opportunities as men.
 d) women ought to be imparted full freedom to prove their worth and contribute to the progress of the nation.

62. The prevention of accidents makes it necessary not only that safety devices be used to guard exposed machinery but also that mechanics be instructed in safety rules which they must follow for their own protection, and that lighting in the plant be adequate. The industrial accidents

a) are always avoidable;
 b) may be due to ignorance.
 c) cannot be entirely overcome.
 d) can be eliminated with the help of safety rules.

63. The school has always been the most important means of transferring the wealth of tradition from one generation to the next. This applies today in an even higher degree than in former times for, through the modern development of economy, the family as bearer of tradition and education has become weakened. For transferring the wealth of tradition from one generation to the next

a) there are means other than the school.
 b) several different sources must be tried.
 c) economic development plays a crucial role
 d) modern technology must be put to use.

64. It is up to our government and planners to devise ways and means for the mobilisation of about ten crore workers whose families total up about forty crore men, women and children. Our agriculture is over-manned. A lesser number of agriculturists would mean more purchasing or spending power to every agriculturist. This will result in the shortage of man-power for many commodities to be produced for which there will be a new demand from a prosperous agrarian class. This shortage will be removed by surplus man-power released from agriculture as suggested above.

a) employment in production is more fruitful than employment in agriculture.
 b) Indian economy is in a poor shape basically due to improper mobilisation of man-power.
 c) a shift of labour from agricultural sector to the industrial sector would uplift the living standard.
 d) the industrial sector is labour-deficient while the agricultural sector is over-manned in our country.

65. The only true education comes through the stimulation of the child's powers by the demands of the social situations in which he finds himself. Through these demands he is stimulated to act as a member of a unity, to emerge from his original narrowness of action and feeling, and to conceive himself from the standpoint of the welfare of the group to which he belongs. The passage best supports the statement that real education -

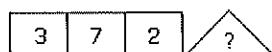
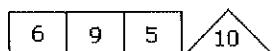
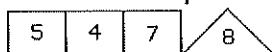
a) will take place if the children imbibe action and feeling.
 b) will take place if the children are physically strong.
 c) is not provided in our schools today.
 d) comes through the interaction with social situations.

66. Which one will replace the question mark ?

A ₂	C ₄	E ₆
G ₃	I ₅	?
M ₅	O ₉	Q ₁₄

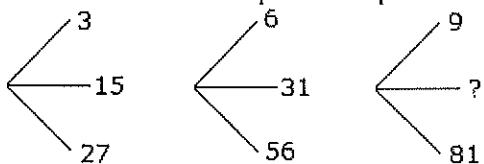
a) L10
 b) K15
 c) I15
 d) K8

67. Which one will replace the question mark ?



- a) 1
- b) 4
- c) 3
- d) 6

68. Which one will replace the question mark ?



- a) 45
- b) 41
- c) 32
- d) 40

69. $4+4.44+0.4+44.04+444=?$

- a) 497.24
- b) 487.66
- c) 496.88
- d) 469.88

70. $0.01 \times 0.1 - 0.001 \div 10 + 0.01 = ?$

- a) 0.0109
- b) 0.0101
- c) 0.19
- d) 0.109

71. The average age of the family of five members is 24. If the present age of youngest member is 8 years, then what was the age of family at the time of birth of youngest member?

- a) 20 years
- b) 16 years
- c) 12 years
- d) 18 years

72. In a test, minimum passing percentage for girls and boys is 35% and 40% respectively. A boy scored 483 marks and failed by 117 marks. What are the minimum passing marks for girls?

- a) 425
- b) 520
- c) 500
- d) 525

73. Seema purchased an item for Rs.9, 600/- and sold it for a loss of 5 %. From that money, she purchased another item and sold it for a gain of 5 %. What is her overall gain/loss?

- a) Loss of Rs.36/-
- b) Loss of Rs.24/-
- c) Loss of Rs.54/-
- d) Profit of Rs.36/-

74. The ratio of ages of Ram and Rakesh is 9: 10 respectively. Ten years ago the ratio of their age was 4: 5 respectively. What is the present age of Rakesh?

- a) 25 years
- b) 20 years
- c) 35 years
- d) 24 years

75. 30 men can do a piece of work in 16 days. How many men would be required to do the same work in 20 days?

- a) 12
- b) 15
- c) 36
- d) 24

76. A 260 meter long train crosses a 120 meter long wall in 19 seconds. What is the speed of the train?

- a) 27 km / hr
- b) 49 km / hr
- c) 72 km / hr
- d) 70 km / hr

77. A sum of Rs.5,000/- amounts to Rs.6,050/- in two years. What is the rate of interest?

- a) 12 % p.a
- b) 08 % p.a
- c) 11 % p.a
- d) 10 % p.a

78. The wheel of the motor car makes 1000 revolutions in moving 440 meters. The diameter of the wheel is

- a) 0.44 m
- b) 0.14 m
- c) 0.24 m
- d) 0.34 m

79. In 1 kg of mixture of sand and iron, 20 % is iron. How much sand should be added, so that the proportion of iron becomes 5 %?

- a) 3 kg
- b) 5 kg
- c) 1 kg
- d) 500 gms

80. $1975^2 - 25^2 =$

- a) 3900000
- b) 3852500
- c) 3882525
- d) 3975125

81. $275^2 - 2 \times 275 \times 125 + 125^2 =$

- a) 22225
- b) 22500
- c) 25500
- d) 28225

82. If the simple interest on a certain sum of money for 8 months at 8% pa is Rs. 110 less than the simple interest on the same sum for 15 months at 5% pa, then find the sum.

- a) Rs. 8000
- b) Rs. 8400
- c) Rs. 10200
- d) Rs. 12000

83. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

- a) Sunday
- b) Saturday
- c) Friday
- d) Wednesday

84. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

- a) 1: 3
- b) 3: 2
- c) 3: 4
- d) 2: 4

85. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- a) 276
- b) 299

- c) 322
- d) 345

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

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

87. A and B take part in 100 m race. A runs at 5 kmph. A gives B a start of 8 m and still beats him by 8 seconds. The speed of B is:

- a) 4.6 kmph
- b) 4.14 kmph
- c) 4.25 kmph
- d) 4.4 kmph

88. Two pipes A and B can fill a cistern in $37\frac{1}{2}$ minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after:

- a) 5 min.
- b) 9 min.
- c) 10 min.
- d) 15 min.

89. There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there?

- a) 20
- b) 30
- c) 50
- d) 60

90. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner?

- a) 15
- b) 29
- c) 61
- d) 75

91. In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 meters and a distance of one meters is left from all sides of the boundary of the garden. The length of the garden is

- a) 20 m
- b) 22 m
- c) 24 m
- d) 26 m

92. The length and breadth of a rectangle are in the ratio of 3:2. If length is increased by 5 meter keeping the breath same, the new area of rectangle is 2600 sq.mtrs. What is the breath of the rectangle?

- a) 30 m
- b) 25 m
- c) 20 m
- d) 18 m

93. 05 litres of water is added to a certain quantity of pure milk costing Rs.3 per litre. If by selling the mixture at the same price as before, a profit of 20% is made, then what is the amount of pure milk in the mixture?

- a) 25 litres
- b) 20 litres
- c) 24 litres
- d) 30 litres

94. A is twice as fast as B and B is thrice as fast as C is. The journey covered by C in $1\frac{1}{2}$ hours will be covered by A in

- a) 15 minutes
- b) 20 minutes

- c) 30 minutes
- d) 01 hour

95. A: B = 3 : 4 and B : C = 8 : 9, then the ratio of A : B : C is

- a) 3 : 4 : 5
- b) 1 : 2 : 3
- c) 7 : 12 : 17
- d) 6 : 8 : 9

96. Find the missing number: 6, 15, (?), 45, 66, 91

- a) 25
- b) 26
- c) 27
- d) 28

97. Which fraction comes in the next sequence: 1/2, 3/4, 5/8, 7/16, (?)

- a) 10/17
- b) 11/34
- c) 9/32
- d) 12/35

98. Find the missing number: 3, 6, 18, 72, (?),

- a) 144
- b) 216
- c) 288
- d) 360

99. Here are some words translated from an artificial language.

hapllesh means cloudburst

srenchoch means pinball

resbosrench means ninepin

Which word could mean "cloud nine"?

- a. leshsrench
- b. ochhapl
- c. haploch
- d. haplresbo

100. Here are some words translated from an artificial language.

moolokarn means blue sky

wilkospadi means bicycle race

moolowilko means blue bicycle

Which word could mean "racecar"?

- a) wilkozwet
- b) spadiwilko
- c) moolobreil
- d) spadivolo
