

Previous Paper (Solved)

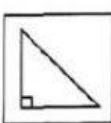
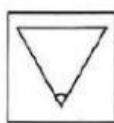
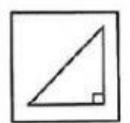
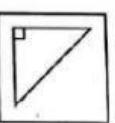
JAWAHAR NAVODAYA VIDYALAYA

Class-VI, Entrance Exam, 2020*

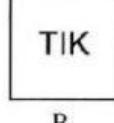
SECTION-I : MENTAL ABILITY TEST

PART-I

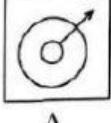
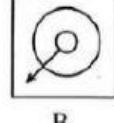
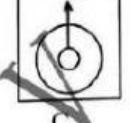
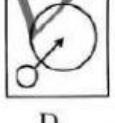
Directions (Qs. No. 1 to 4): In these questions, four figures (A), (B), (C) and (D) have been given in each question. Of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different.

1.    

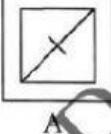
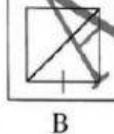
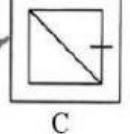
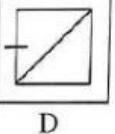
A B C D

2.    

A B C D

3.    

A B C D

4.    

A B C D

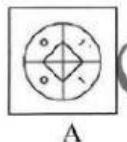
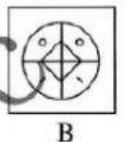
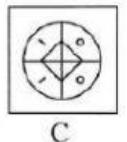
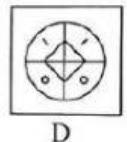
PART-II

Directions (Qs. No. 5 to 8): In these questions, a question figure and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which is exactly the same as the question figure.

5. Question Figure

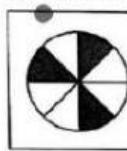


Answer Figures

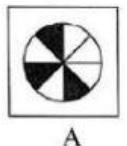
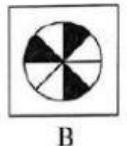
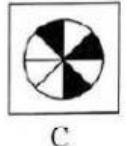
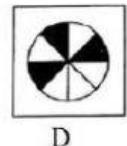
   

A B C D

6. Question Figure

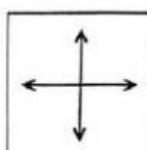


Answer Figures

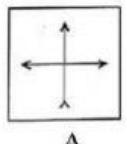
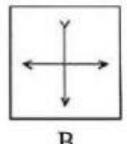
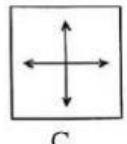
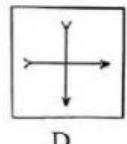
   

A B C D

7. Question Figure

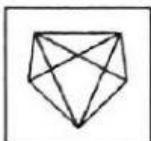


Answer Figures

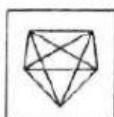
   

A B C D

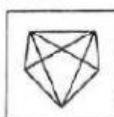
8. Question Figure



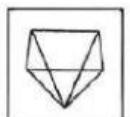
Answer Figures



A



B



C

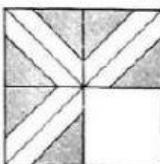


D

PART-III

Directions (Qs. No. 9 to 12): In these questions, there is a question figure, a part of which is missing. Observe the answer figures (A), (B), (C) and (D) and find out the answer figure which, without changing the direction, fits in the missing part of the question figure in order to complete the pattern in the question figure.

9. Question Figure



Answer Figures



A



B

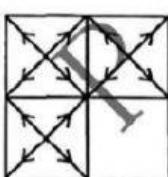


C

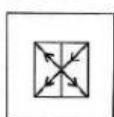


D

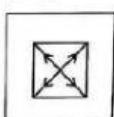
10. Question Figure



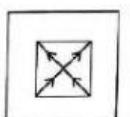
Answer Figures



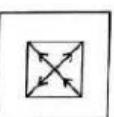
A



B

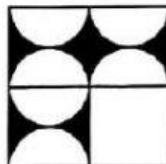


C

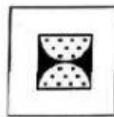


D

11. Question Figure



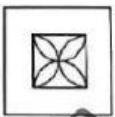
Answer Figures



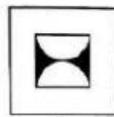
A



B



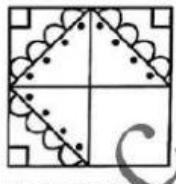
C



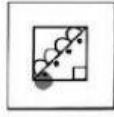
D

III

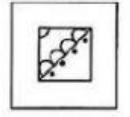
12. Question Figure



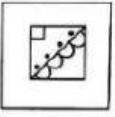
Answer Figures



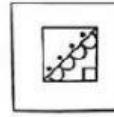
A



B



C

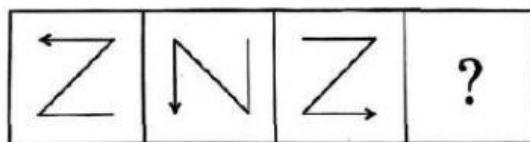


D

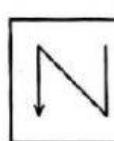
PART-IV

Directions (Qs. No. 13 to 16): In these questions, there are three question figures and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from among the answer figures given which occupies the blank space for the fourth figure and completes the series.

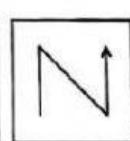
13. Question Figures



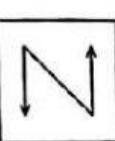
Answer Figures



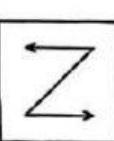
A



B

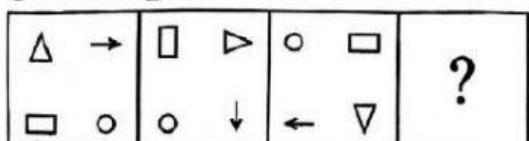


C

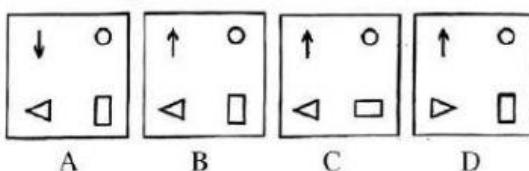


D

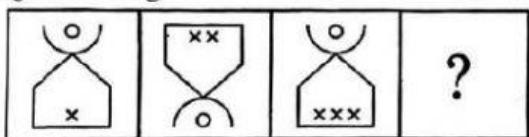
14. Question Figures



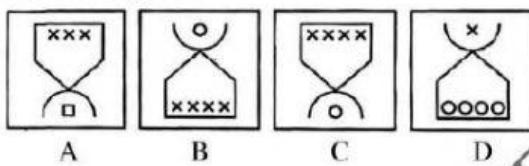
Answer Figures



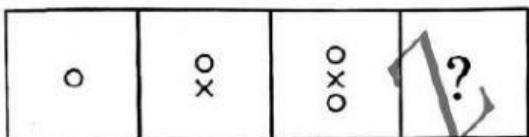
15. Question Figure



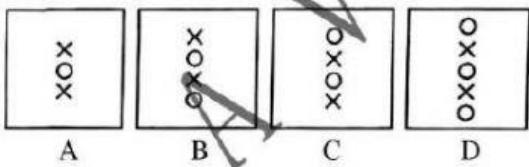
Answer Figures



16. Question Figures



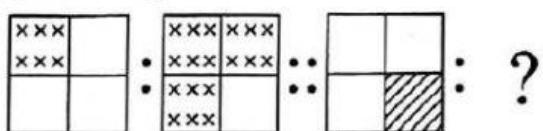
Answer Figures



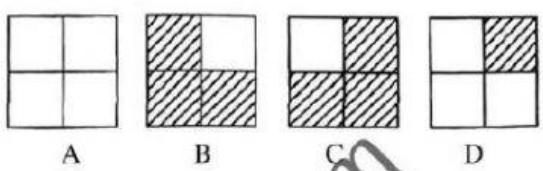
PART-V

Directions (Qs. No. 17 to 20): In these questions, there are two sets of two question figures each. The second set has an interrogation mark (?). There exists a relationship between the first two question figures. Similar relationship should exist between the third and fourth question figure. Select one of the answer figures which replaces the mark of interrogation.

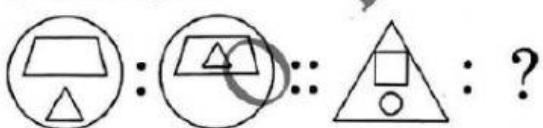
17. Question Figures



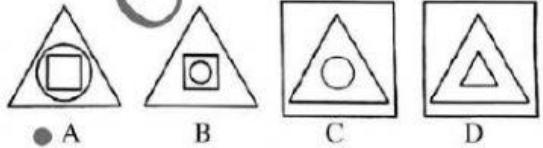
Answer Figures



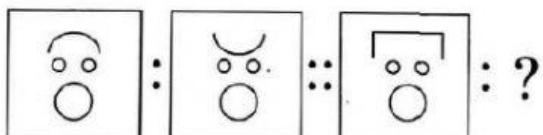
18. Question Figures



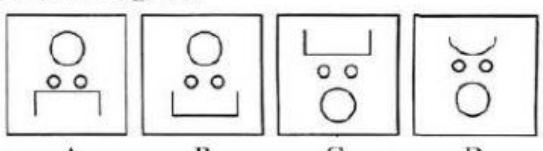
Answer Figures



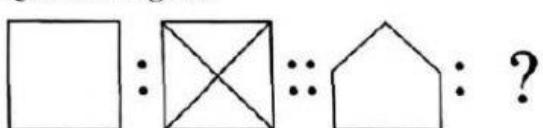
19. Question Figures



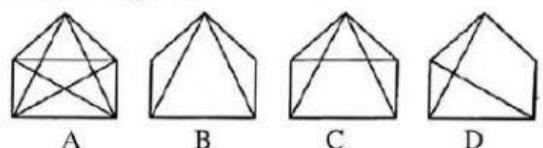
Answer Figures



20. Question Figures



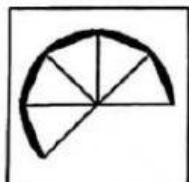
Answer Figures



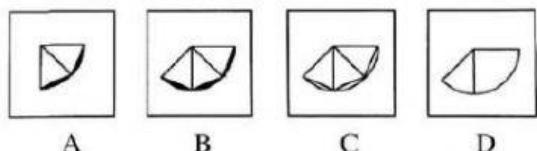
PART-VI

Directions (Qs. No. 21 to 24): In these questions, one part of a geometrical figure (Triangle, Square, Circle) is given a question figure and the other one is among the four answer figures (A), (B), (C) and (D) are given. Find the figure that completes the geometrical figure.

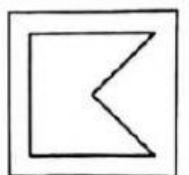
21. Question Figure



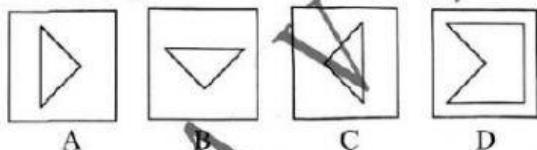
Answer Figures



22. Question Figure



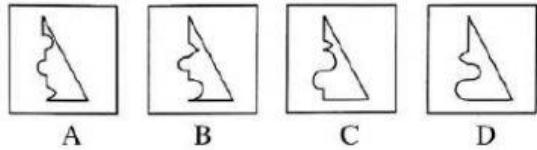
Answer Figures



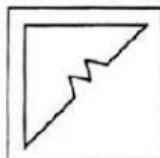
23. Question Figure



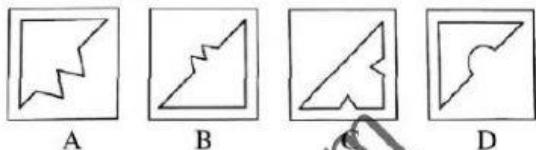
Answer Figures



24. Question Figure



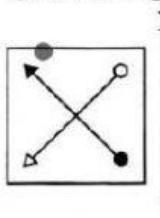
Answer Figures



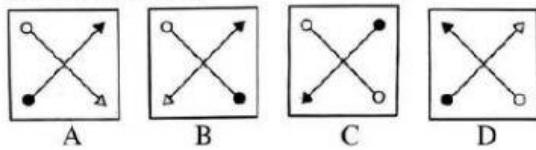
PART-VII

Directions (Qs. No. 25 to 28): In these questions, there is a question figure is given and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which is exactly the mirror image of the question figure when the mirror is held at XY.

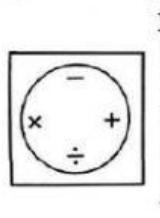
25. Question Figure



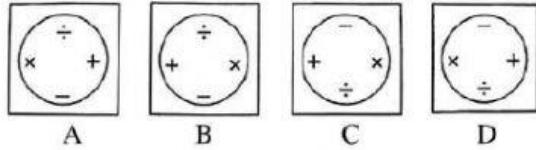
Answer Figures



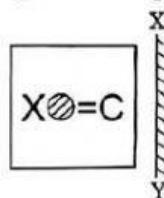
26. Question Figure



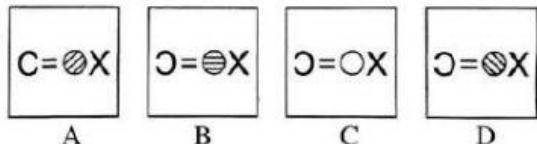
Answer Figures



27. Question Figure



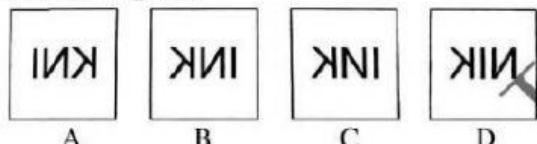
Answer Figures



28. Question Figure



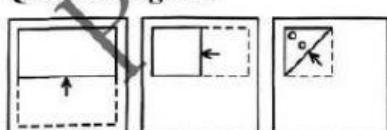
Answer Figures



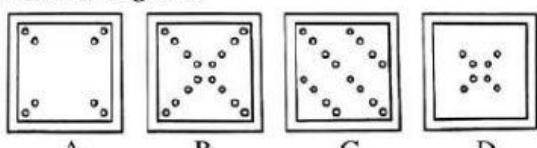
PART-VIII

Directions (Qs. No. 29 to 32): In these questions, a piece of paper is folded and punched as shown in question figures and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which indicates how the paper will appear when opened (unfolded). Indicate your answer corresponding to the question.

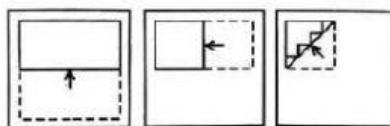
29. Question Figures



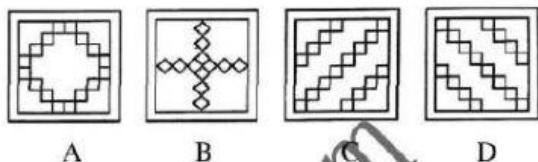
Answer Figures



30. Question Figures



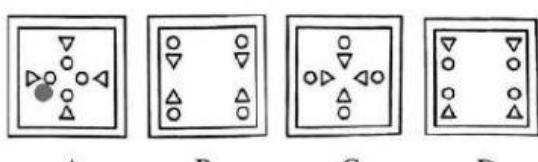
Answer Figures



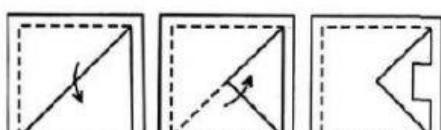
31. Question Figures



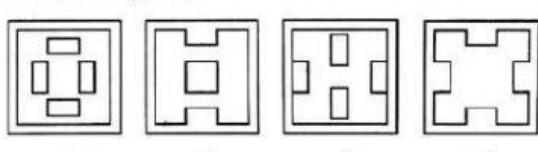
Answer Figures



32. Question Figures



Answer Figures



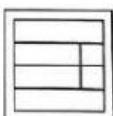
PART-IX

Directions (Qs. No. 33 to 36): In these questions, a question figure and four answer figures marked (A), (B), (C) and (D) are given. Select the answer figure which can be formed from the cut-out pieces given in the question figure.

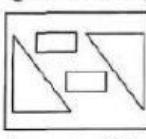
33. Question Figure



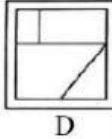
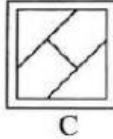
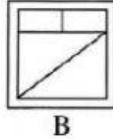
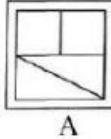
Answer Figures



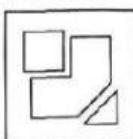
34. Question Figure



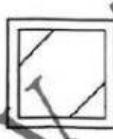
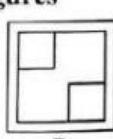
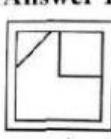
Answer Figures



35. Question Figure



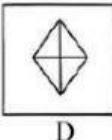
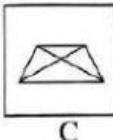
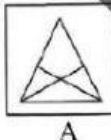
Answer Figures



36. Question Figure



Answer Figures

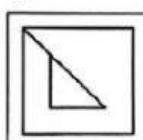


PART-X

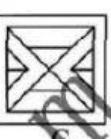
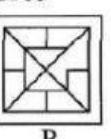
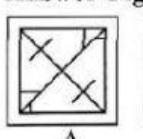
Directions (Qs. No. 37 to 40): In these questions, a question figure and four answer figures, marked

(A), (B), (C) and (D) are given. Select the answer figure in which the question figure is hidden/embedded.

37. Question Figure



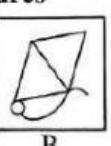
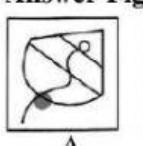
Answer Figures



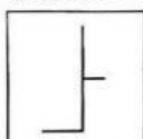
38. Question Figure



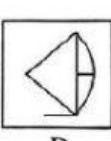
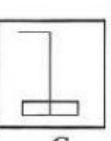
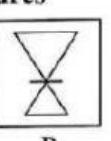
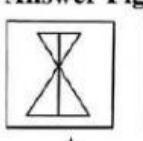
Answer Figures



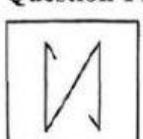
39. Question Figure



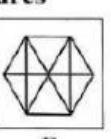
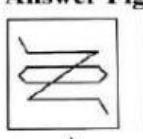
Answer Figures



40. Question Figure



Answer Figures



SECTION-II : ARITHMETIC TEST

Directions: For every question, four probable answers as (A), (B), (C) and (D) are given. Only one out of these is correct. Choose the correct answer.

41. In how many years does the sum of ₹ 1,200 become ₹ 1,800 at the rate of simple interest of 5% per annum?
A. 10 B. 20
C. 15 D. 25

42. The prime factorisation of 640 is:
A. $2 \times 2 \times 2 \times 2 \times 2 \times 5$
B. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5$
C. $2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5$
D. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5$

43. If the number B is 10% less than another number C and C is 5% more than 150, then B is equal to:
A. 157.85 B. 153.85
C. 151.75 D. 141.75

44. A square and a rectangle have the same perimeter. If the side of the square is 16 m and the length of the rectangle is 18 m, the breadth of the rectangle is:
A. 14 m B. 15 m
C. 16 m D. 17 m

45. We reached our destination at 2:45 pm after travelling for $4\frac{1}{2}$ hours. When did we start?
A. 9 : 00 am B. 10 : 00 am
C. 10 : 15 am D. 8 : 15 am

46. One-fourth of birds of a flock are at a river bank and one-fifth of that flock are in their nest. Remaining 22 birds are wandering in search of food. What is the number of birds which are in their nest?
A. 40 B. 18
C. 10 D. 8

47. What will be the difference between the greatest 6-digit number and the greatest 5-digit number?
A. 100000 B. 100001
C. 99999 D. 900000

48. A park is 1500 metres long and 750 metre wide. A cyclist has to take four rounds this park. How much time he will take at the speed of 4.5 km/h?
A. 40 hours B. 20 hours
C. 10 hours D. 4 hours

49. If $15 - 15 \div 15 \times 6 = x$, then x is:
A. 6 B. 0
C. 9 D. 84

50. $\frac{3}{8} \div \left(\frac{5}{3} - \frac{1}{6} \right) + \frac{5}{8}$ equals:
A. $\frac{3}{8}$ B. $2\frac{5}{8}$
C. $\frac{7}{8}$ D. $1\frac{1}{8}$

51. 140.75×0.01 is:
A. 140.75 B. 14000.75
C. 1.4075 D. 0.14075

52. The sum of H.C.F. and L.C.M of 45, 60 and 75 is:
A. 330 B. 960
C. 915 D. 630

53. How many bricks will be required for a wall 8 m long, 6 m high and 22.5 cm thick, if each brick measures 25 cm \times 11.25 cm \times 6 cm?
A. 640 B. 1380
C. 6400 D. 7600

54. The value of $0.9 \div (0.3 \times 0.3)$ is:
A. 0.01 B. 0.1
C. 1 D. 10

55. Which of the following is not equal to 25?
A. $50 - (100 \div 4)$
B. $20 + (20 \div 4)$
C. $10 + (5 \times 2) + (10 - 5)$
D. $24 + (2 \times 1)$

56. 5% of 10% of 175 grams is equal to:
A. 8.75 gm B. 0.5 gm
C. 0.875 gm D. 17.5 gm

57. The value of x which makes the following statement true is:

$$\left(3\frac{7}{11} \times \frac{11}{5}\right) \div \left(\frac{3}{7} \times x\right) = \frac{4}{3}$$

A. $\frac{7}{2}$ B. 14
C. 7 D. 28

58. Amit bought a table for ₹ 1,200 and spent ₹ 200 on its repair. He sold it for ₹ 1,680. His profit or loss per cent is:

A. 12% profit B. $16\frac{2}{3}\%$ profit
C. 20% loss D. 20% profit

59. What is the difference between the greatest 7-digit number and the smallest 4-digit number?

A. 9990999 B. 9993999
C. 9996999 D. 9998999

60. Find the approximate result of the following expression (in whole numbers):

$$49.6 \times 10.2 - 7.1 \times 29.7 - 5.1 \times 20.1$$

A. 390 B. 290
C. 209 D. 190

SECTION-III : LANGUAGE TEST

Directions (Qs. No. 61-80) : There are four passages in this Section. Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers as (A), (B), (C) and (D) are given. Only one out of these is correct. Choose the correct answer.

PASSAGE-1

Hema lay on her bed staring at the stars stuck on the ceiling of her room. She was upset as none of the clothes seemed to fit her. She wore them again one by one but they were either too tight or too short. A cupboard full of clothes and she could not wear any of them. She then had a bright idea, her eyes lit up and she ran to her mother's room. "Ma, I need new clothes", she said, "but only after I donate all my old clothes to charity. No more amassing of clothes." Her mother smiled and hugged her. She did have a kind daughter!

61. Hema lay on her bed because she:
A. was tired.
B. liked looking at the stars.
C. was wondering what to wear.
D. was a lazy girl.

62. She could not wear any of her clothes because:
A. they were not fashionable.
B. they were too colourful.
C. she did not know what to choose.
D. none of them fitted her.

63. Synonym for the word, 'amassing' is:
A. collecting B. distributing
C. sharing D. gifting

64. Hema is:
A. greedy B. charitable
C. selfish D. miserly

65. The opposite of word, 'donate' is:
A. give B. receive
C. distribute D. spend

PASSAGE-2

Travelling is both recreational and educative. It has always been regarded as an important part of education. In Europe, a young man is considered fully educated only when he has travelled through many countries of Europe. In ancient India also, our sages understood the great value of travelling. They made it a pious duty of all to visit various pilgrim centres situated in different parts of India. This encouraged the feeling of oneness among Indians.

66. It is important to if one wants to get real education.
A. study B. work
C. travel D. mediate

67. Which one of the following words is a synonym of "recreational" ?
A. educational B. thrilling
C. tiring D. sight-seeing

68. Visiting the centres was considered holy in ancient India.
A. training B. pilgrim
C. city D. business

69. People have a feeling of oneness with others if they a lot.
A. travel B. talk
C. play D. question

70. A sage is a person who is
A. learned B. smart
C. free D. wicked

PASSAGE-3

Fire is to blame for the loss of countless lives and billions of rupees each and every year. Firefighters help protect people and their property from injury and damage. They put their lives on the line every time they respond to a call.

While on duty, firefighters must be ready to respond in a matter of minutes to just about any disaster that may occur. At every fire scene, a superior fire officer takes command and directs the jobs of all the people at the scene. Some firemen connect the hose lines to hydrants. Others manually operate the pumps to send water to the hoses. Teams of firefighters also operate ladders used to reach distances high in the air.

71. Which is not true about the firefighters?
A. They are brave.
B. They often put their lives in danger.
C. They never put their lives in danger.
D. They are highly trained.

72. A firefighter has to prepare to extinguish a fire in:
A. minutes B. hours
C. days D. weeks

73. Firefighters put their lives on the line means:
A. They stand in a line.
B. They fight fire.
C. They put their lives in danger.
D. They connect the hose line to hydrant.

74. To 'operate manually' means to:
A. make a man work.
B. work with their hands.
C. use a machine.
D. use one's body.

75. The word 'occur' means the same as:
A. come B. happen
C. call D. fire

PASSAGE-4

To be fit and healthy, you need to be physically active. Regular physical activity protects you from serious diseases such as obesity, heart disease, cancer, mental illness, diabetes and arthritis. Riding a bicycle regularly is one of the best ways to reduce your risk of health problems associated with a sedentary lifestyle. Cycling is a healthy, low-impact exercise that can be enjoyed by people of all ages, from young children to older adults. It is also fun, cheap and good for the environment. Riding to work or the shop is one of the most time-efficient ways to combine regular exercise with everyday routine. An estimated one billion people ride bicycles everyday - for transport, recreation and sport. Cycling is a good way to reduce weight as it builds muscle and burns body fat. Research suggests that by cycling for half an hour everyday we can shed at least five kilos of weight in a year.

76. The main focus of the passage is to tell us the advantages of:
A. keeping fit B. cycling
C. exercising D. reducing weight

77. When the writer says : 'Cycling is good for the environment', which of the following is not correct?
A. It does not emit any unhealthy gas.
B. It can be run without petrol or diesel.
C. It does not pollute air.
D. It can be ridden by all age groups.

78. The word which means opposite of the word, 'sedentary' is:
A. active B. lazy
C. inactive D. deskbound

79. A low-impact exercise is one which is:
A. not tiring B. not costly
C. not efficient D. not boring

80. Regular cycling helps us in all of the following EXCEPT to:
A. reduce fat and strengthen muscles
B. combine fun with work
C. prevent serious accidents
D. remain healthy