Jawahar Navodaya Vidyalaya
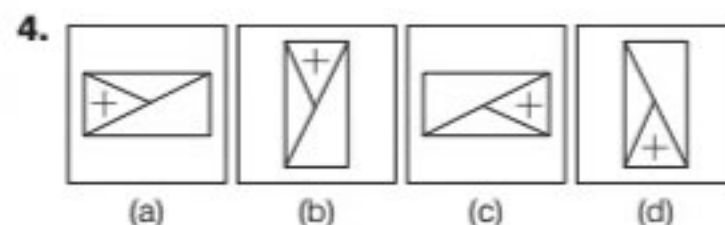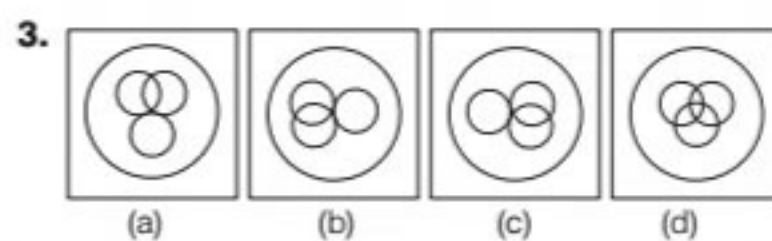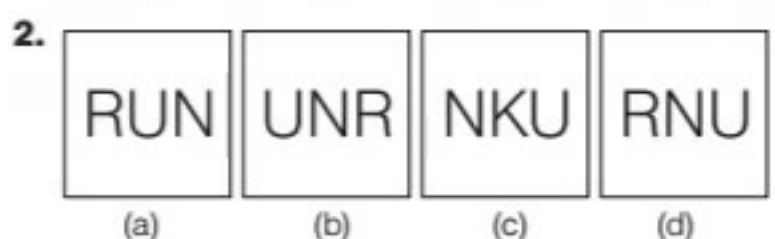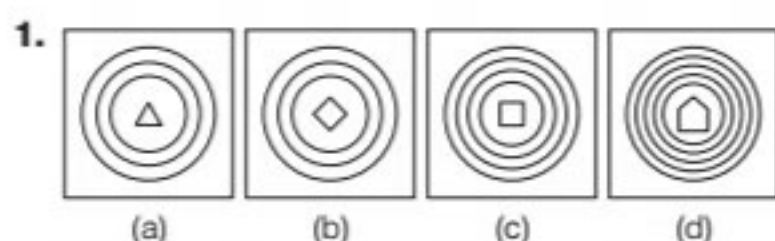## Entrance Exam, Class-VIth

Solved Paper – 2019

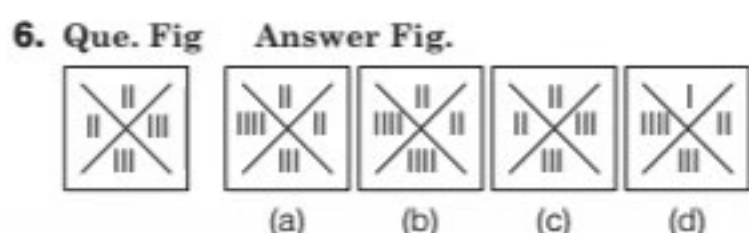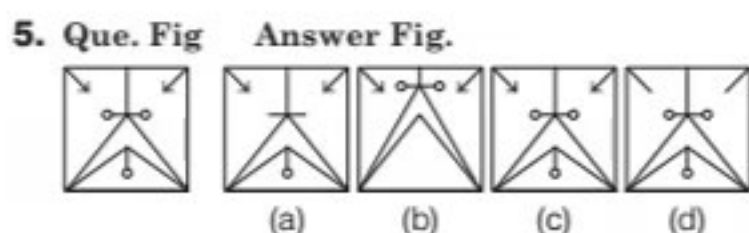## SECTION I : Mental Ability Test

Part I

Directions *In Question Nos. 1 to 4, 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.*
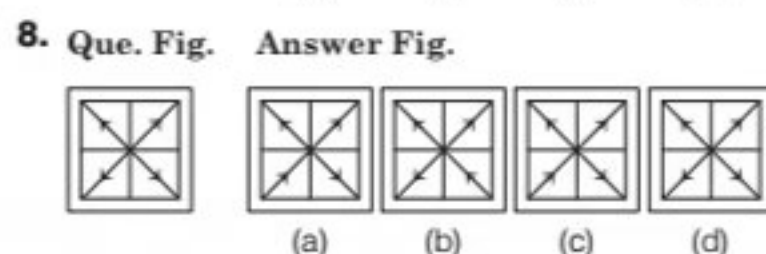
1.

(a) (b) (c) (d)

3.

(a) (b) (c) (d)

2.

RUN	UNR	NKU	RNU
(a)	(b)	(c)	(d)

4.

(a) (b) (c) (d)

Part II

Directions *In Question Nos. 5 to 8, a question figure is given on the left side and four answer figures marked (a), (b), (c) and (d) are given in right side. Select the answer figure which is exactly the same as the question figure.*

5. Que. Fig   Answer Fig.

(a) (b) (c) (d)

Que. Fig.   Answer Fig.

(a) (b) (c) (d)

6. Que. Fig   Answer Fig.

(a) (b) (c) (d)

8. Que. Fig.   Answer Fig.

(a) (b) (c) (d)

7.
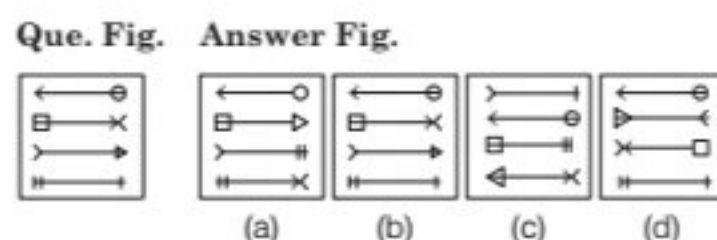
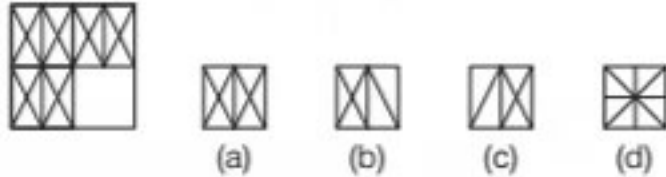# Part III

Directions *In Question Nos. 9 to 12, there is a question figure on the left side, a part of which is missing. Observe the answer figures (a), (b), (c) and (d) on the right side and find out the answer figure which without changing the direction, fits in the missing part of the question figure in order to the complete pattern in the question figure.*

9. Que. Fig.   Answer Fig.

10. Que. Fig.   Answer Fig.
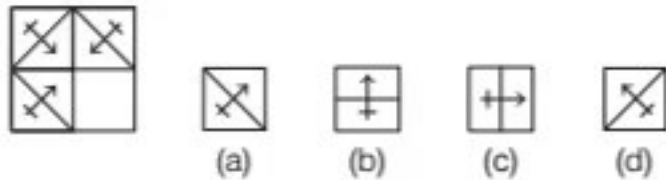
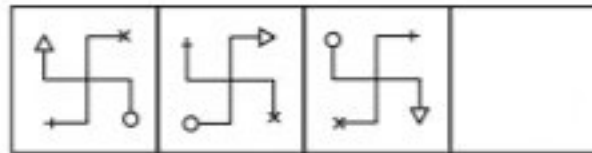**11.** Que. Fig.   Answer Fig.
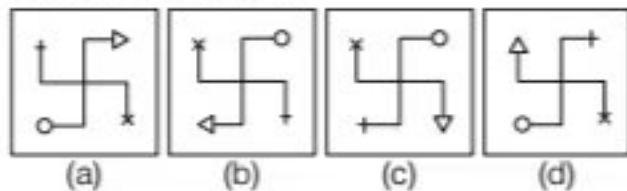

12. Que. Fig.   Answer Fig.

Part IV

Directions *In Question Nos. 13 to 16 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 among the answer given which occupies the blank space for the fourth figure and completes the series.*
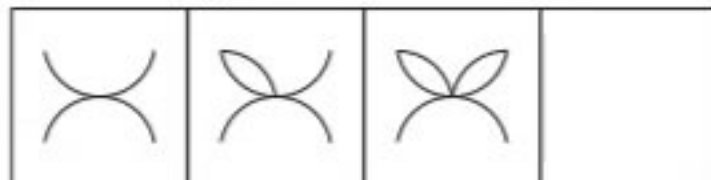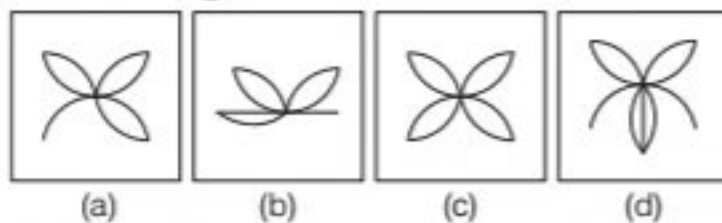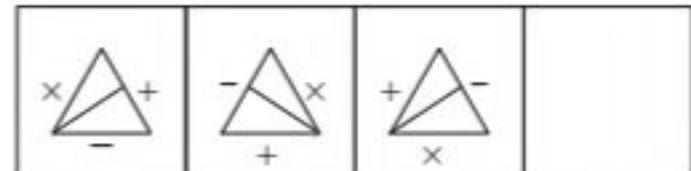
13. Question Figures
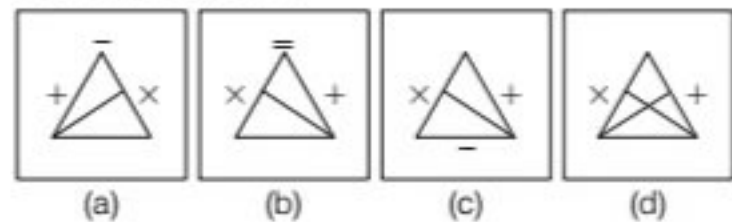

Answer Figures

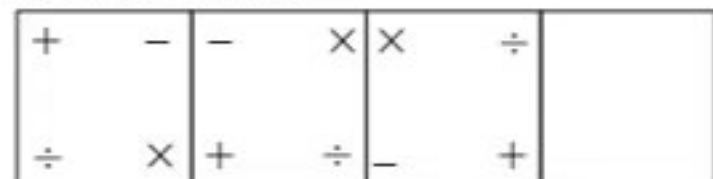**14.** Question Figures

Answer Figures
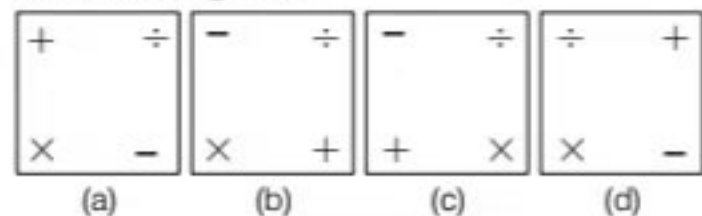

15. Question Figures
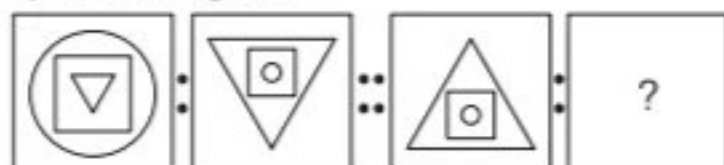

Answer Figures

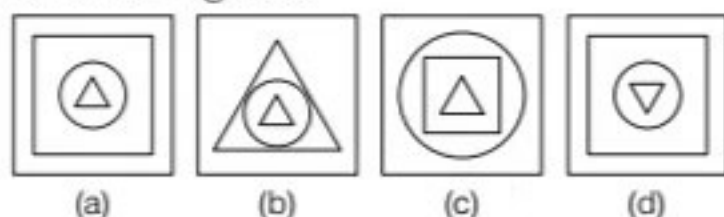**16.** Question Figures

Answer Figures

Part V

Directions *In Question Nos. 17 to 20, 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 figures. Select one of the answer figures which replaces the mark of interrogation.*

17. Question Figures

Answer Figures

(a)   (b)   (c)   (d)

18. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
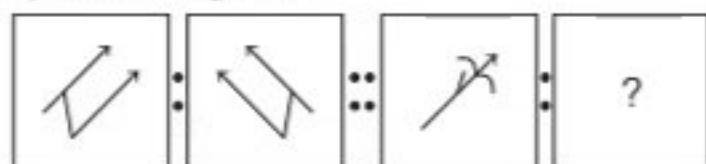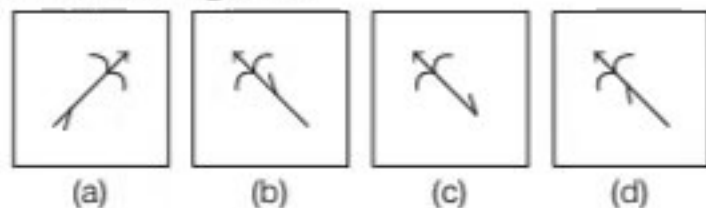
19. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
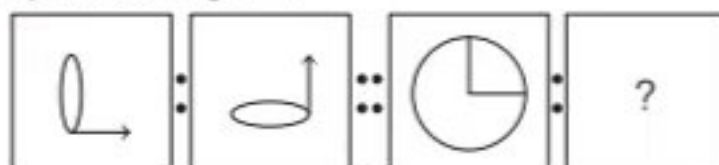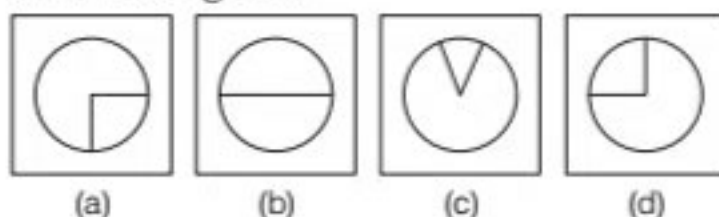
20. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
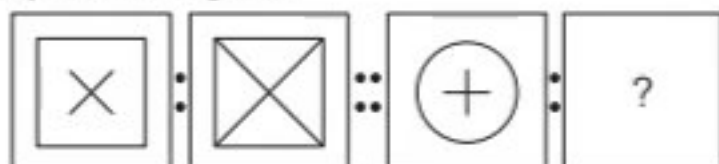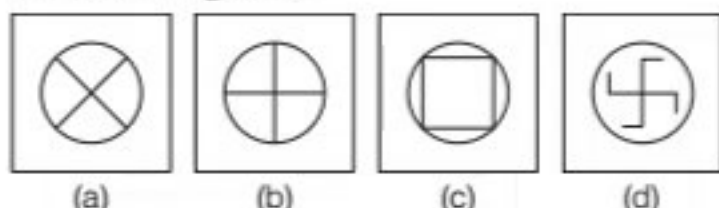
Part VI

Directions *In Question Nos. 21-24, one part of a geometrical figure (Triangle, Square, Circle) is on the left side as question figure and the other one is among the four answer figures (a), (b), (c) and (d). Find the figure on the right side that completes the geometrical figure.*

21. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
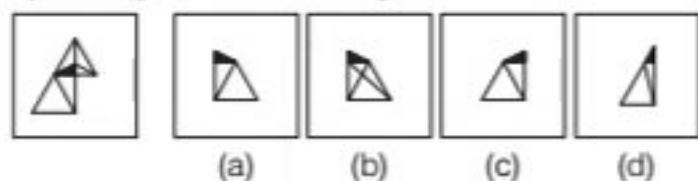
22. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
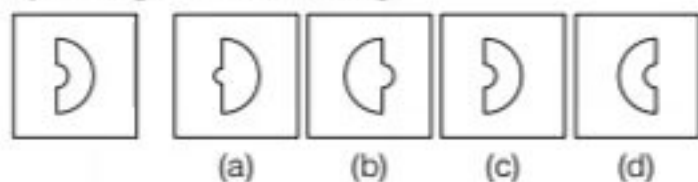
23. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

24. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
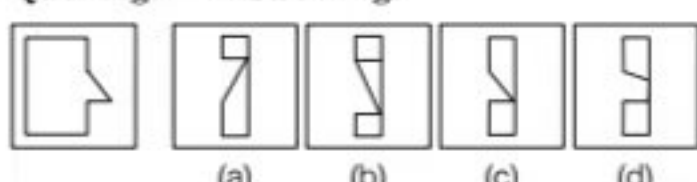
Part VII

Directions *In Question Nos. 25-28, there is a question figure is given on left side 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. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

27. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
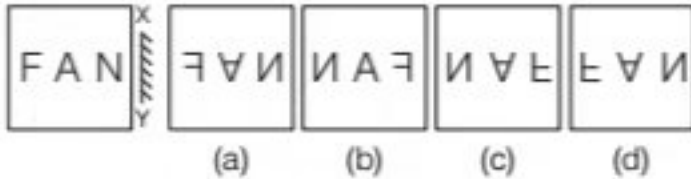
26. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
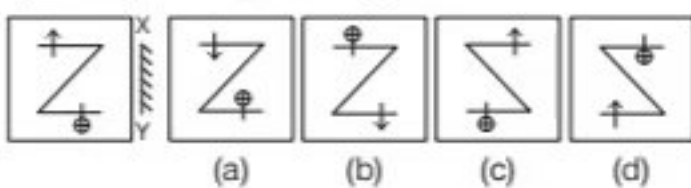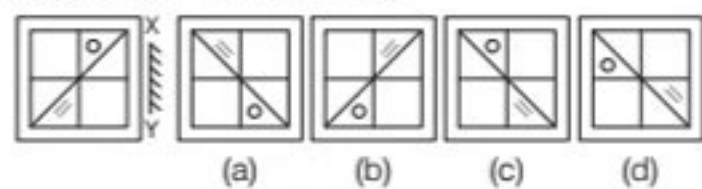
28. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
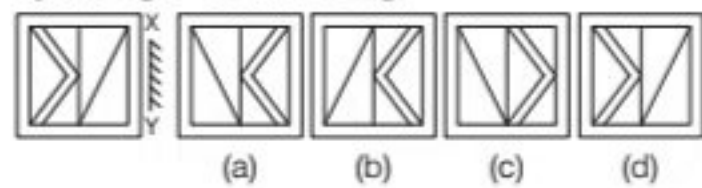
Part VIII

Directions *In Question Nos. 29 to 32, 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).*

29. Question Figures

Answer Figures

(a)   (b)   (c)   (d)

31. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
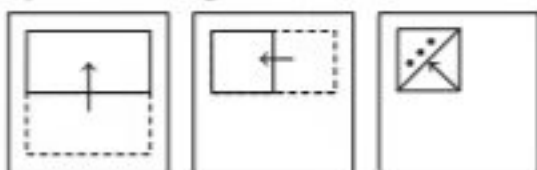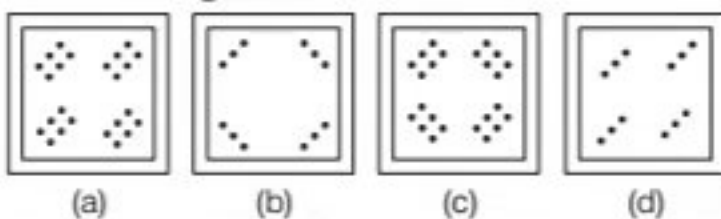
30. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
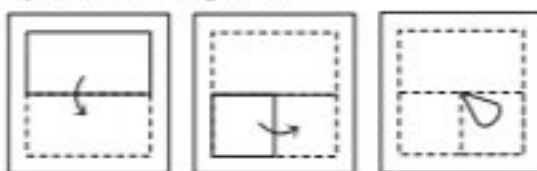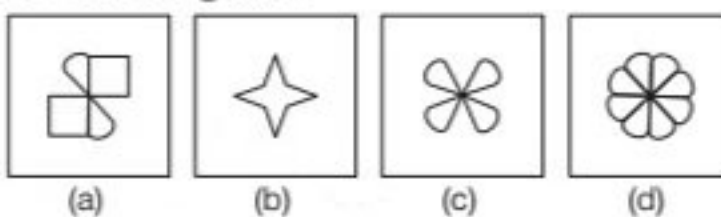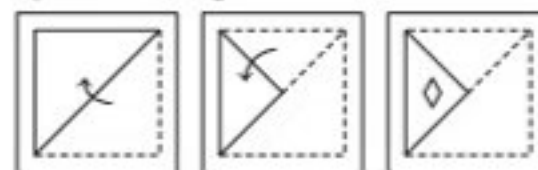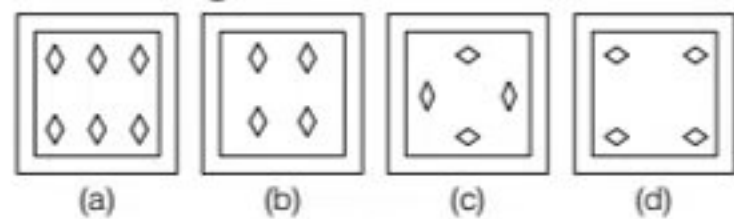
32. Question Figures

Answer Figures

(a)   (b)   (c)   (d)
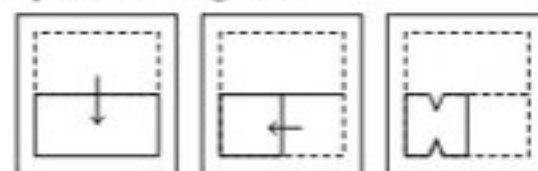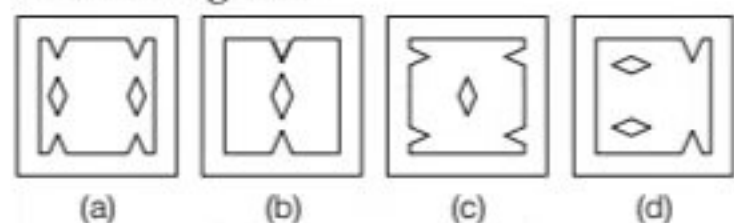
Part IX

Directions *In Question Nos. 33 to 36, a question figure is given 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. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

34. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
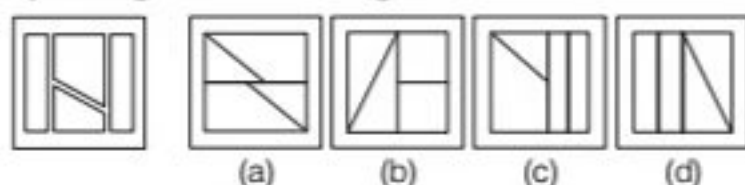
35. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
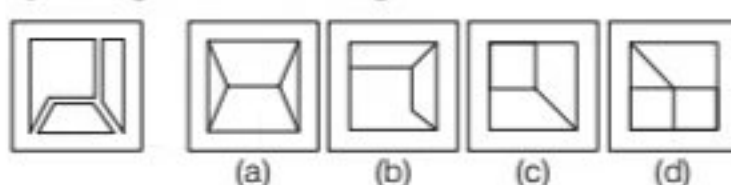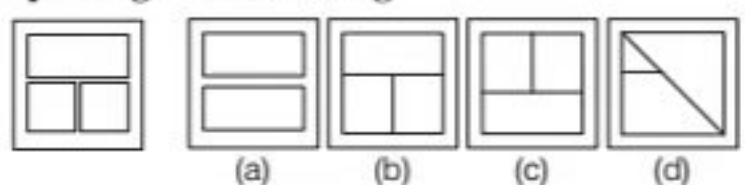
36. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
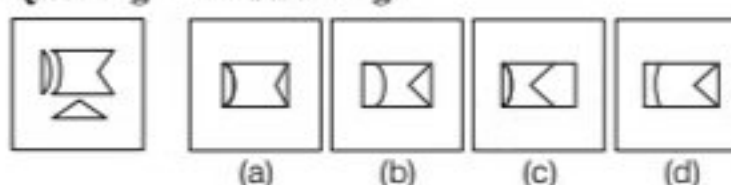
Part X

Directions *In question nos. 37 to 40, a question figure is given and four answer figures marked (a), (b), (c) and (d). Select the answer figure in which the question figure is hidden/embedded.*

37. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)

38. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
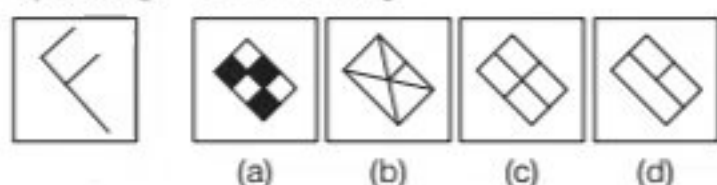
39. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
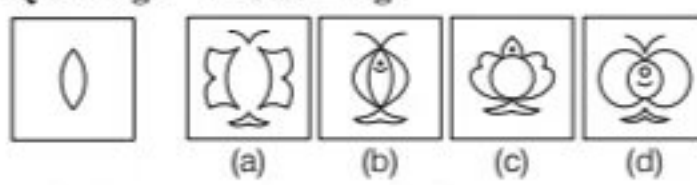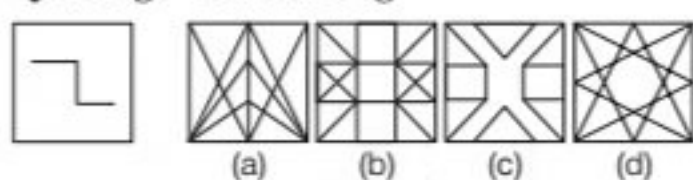
40. Que. Fig.   Answer Fig.

(a)   (b)   (c)   (d)
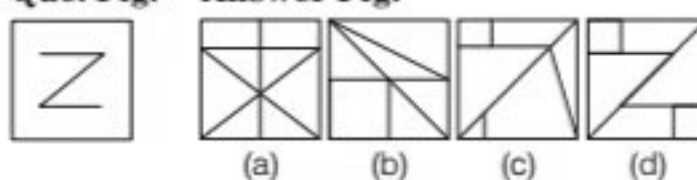
SECTION II : Arithmetic Test

Directions *(Q. Nos. 41-60) 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 and darken the circle in the OMR Answer Sheet against the number corresponding to the question.*

41. Simplification of the following gives

$$15\frac{1}{2} - \left[\frac{12}{5} \times \frac{5}{8} + \left(7 \div 1\frac{3}{4}\right)\right] \times 2$$

(a) $\frac{2}{9}$ (b) $\frac{7}{2}$

(c) $\frac{9}{2}$ (d) $\frac{11}{2}$

42. The number of numbers which are multiples of both 3 and 5 in the first 100 natural numbers is

(a) 10   (b) 9   (c) 7   (d) 6

43. Which of the following statements is correct?

(a) Zero is an odd number

(b) Zero is an even number

(c) Zero is a prime number

(d) Zero is neither odd nor even number

44. If a man travels at a speed of 30 km/h, he reaches his destination 10 min late and if he travels at a speed of 42 km/h, he reaches his destination 10min early. The distance travelled is
(a) 36 km   (b) 35 km   (c) 40 km   (d) 42 km

45. A passenger train, running at a speed of 80 km/h leaves a railway station 6h after a goods train leaves and overtakes it in 4 h. What is the speed of the goods train?
(a) 32 km/h   (b) 48 km/h   (c) 60 km/h   (d) 50 km/h

46. What sum will amount to ₹ 6600 in 4 yrs at 8% per annum simple interest?
(a) ₹ 6000   (b) ₹ 5000   (c) ₹ 4000   (d) ₹ 6200

47. 5045 grams is equal to
(a) 50 kg, 45 gm   (b) 5 kg, 45 gm
(c) 5 kg, 450 gm   (d) 50 kg, 450 gm

48. How many rectangular slabs of 10 cm × 8 cm are required to cover the floor of a hall of 12 m × 10 m?
(a) 12000   (b) 15000   (c) 10000   (d) 18000

49. What is the sum of the place value of 5 in the number 584356?
(a) 10   (b) 50050   (c) 5050   (d) 500050

50. Two solid cubes of side 10 cm each are joined end to end. What is the volume of the resulting cuboid?
(a) 500 cm³   (b) 2000 cm³
(c) 1000 cm³   (d) 10000 cm³

51. 150% is equal to
(a) 1.5   (b) 5.1   (c) 0.15   (d) 15.0

52. A fruit seller buys lemons at 2 for a rupee and sells them at 5 for three rupees. What is his profit per cent?
(a) 8%   (b) 10%   (c) 15%   (d) 20%

53. Which of the following numbers is divisible by 3, 4, 5 and 6?
(a) 36   (b) 60   (c) 80   (d) 90

54. There are 500 eggs in a box. $\frac{3}{25}$ got broken, $\frac{4}{5}$ of the remaining eggs were sold. The number of eggs left is
(a) 80   (b) 88   (c) 40   (d) 36

55. 5 minutes past 3, in the afternoon, is written as
(a) 5 : 30 am   (b) 5 : 30 pm
(c) 3 : 50 pm   (d) 3 : 05 pm

56. The difference between the greatest and the smallest 5-digit numbers, formed by the digits 0, 3, 6, 7 and 9 without repetition, is
(a) 93951   (b) 67061
(c) 66951   (d) 60840

57. An article is sold for ₹ 500 and hence a loss is incurred. Had the article been sold for ₹ 700, the shopkeeper would have gained three times the former loss. What is the cost price of the article?
(a) ₹ 525   (b) ₹ 550   (c) ₹ 600   (d) ₹ 650

58. When −1 is multiplied by itself 100 times, the product is
(a) 1   (b) −1   (c) 100   (d) −100

59. Simplification of $2.75 - 1.25 + 4.75 - 3.80$ in fractional form is
(a) $2\frac{9}{20}$ (b) $2\frac{9}{10}$ (c) $1\frac{9}{10}$ (d) $5\frac{9}{20}$

60. The length of a rectangular plot of land is twice its breadth. A square swimming pool of side 8 m, occupies one-eighth part of the plot. The length of the plot is
(a) 64 m   (b) 32 m   (c) 16 m   (d) 12 m

SECTION III : Language Test

Directions (Q. Nos. 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.*

Passage I

Chewing gum was discovered a thousand years ago by the Mayans in the Mexican jungles. They found a liquid leaking from a sapodilla tree. As it oozed out, it thickened into something that they called chicle which was chewable and tasty. Today, workers called chicleros still collect chicle. The chicle is boiled to remove the water. It is then made into slabs about 30 pounds each or 14 kilograms each. These slabs are sent to gum factories. There it is mixed with several ingredients to sweeten, soften, flavour and colour the gum.

61. .... discovered chewing gum.
(a) The Mayans   (b) Sapodillas
(c) Chicleros   (d) Gum factories

62. .... are the workers who collect chicle.
(a) Sapodillas   (b) The Mayans
(c) Chicleros   (d) Gummers

63. Slabs of chicle are sent to
(a) recycling centers   (b) gum factories
(c) the Mexican jungles   (d) candy stores

64. Several ingredients are added to chicle to do all of the following except to ...... it.
(a) soften   (b) flavour
(c) thicken   (d) sweeten

65. A suitable title for the passage will be
(a) The Gum
(b) Chiclero
(c) The Story of Chiclero
(d) The Story of Chewing Gum

Passage 2

India is a land of pilgrims and pilgrimages. These holy places, whether in the hills or in the plains, are **generally** situated on river banks or by the sea. It is not only the religious people who visit these places of pilgrimages, but also travellers and sight-seers from all over India and abroad. Wherever two or more rivers meet, pilgrims come to bathe and worship because that place is supposed to be holy. One such place is Haridwar which is situated on the bank of river Ganga.

66. Holy places are visited by religious people, sight-seers as well as ....
(a) children
(b) travellers
(c) traders
(d) voyagers

67. Which one of the following is a synonym of the word 'generally'?
(a) usually
(b) publicly
(c) occasionally
(d) eventually

68. The place is considered 'holy' where two or more rivers meet.
Here the antonym of the word 'holy' is
(a) godly   (b) religious
(c) cursed   (d) pious

69. People come to bathe and worship in the Ganga as its water is
(a) holy   (b) clear and clean
(c) cool   (d) healthy

70. People go on a pilgrimage because they are
(a) curious   (b) religious
(c) explorers   (d) old

Passage 3

It was Ajit's birthday. All his friends and relatives had gathered. He received many gifts. There were books, toys and clothes. Ajit's aunt gave him a surprise gift-a rose sapling. Ajit liked his aunt's gift the best and at once ran to the garden and planted the sapling. Ajit watered the plant everyday. As soon as he woke up in the morning, he would rush to see how much the plant had grown. One day he saw two little rose buds peeping out. He kept watching the buds bloom into beautiful yellow roses. He was happy and thrilled. With his mother's help, he plucked the flowers. He gifted the first two roses to his mother and sister. Ajit decided to plant more saplings in his garden.

71. Ajit's best birthday gift was a
(a) race car
(b) shirt
(c) rose sapling
(d) book

72. As soon as Ajit woke up he
(a) started studying
(b) rushed to see the sapling
(c) had a bath
(d) went to school

73. How many rose buds appeared first?
(a) one   (b) four
(c) two   (d) many

74. Ajit gifted the first two roses to
(a) his friends   (b) his aunt
(c) his mother and sister   (d) his mother and aunt

75. The word 'thrilled' means
(a) sad   (b) excited
(c) afraid   (d) surprised