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0503

# VSA (English Medium)

Paper No. III

Intelligence Test

Time : 3 P.M. to 4 P.M.

Pages : 16

and General Science

Total Marks : 100

*Instructions :—*

- (1) In this question paper there are **50** questions carrying **2** marks each.
- (2) *All* questions are compulsory.
- (3) A separate answer-sheet is provided to write the answers. Each question has four alternatives. Only one of it is the correct answer. Write the correct alternative in the box, e.g. 

4
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.
- (4) The correct alternative must be written using English numbers. Numbers written in any other language will not be accepted.
- (5) As far as possible do not scratch or rewrite on the answers. Such answers will not be accepted.
- (6) Write the answers either with black or blue inked ball pen. Answers written with pencil or red ink will not be assessed.
- (7) If the answer has to be changed draw three horizontal lines on the wrong answer e.g. 

<del>3</del>
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. Write the changed answer on the right side of the box, e.g. 

<del>3</del>
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 2.
- (8) For one answer only **one** correction can be made once.
- (9) For one subject maximum **five** corrections will be accepted. If more than **five** corrections are made, the extra corrections will not be accepted.
- (10) Part I of the question paper consists of **25** questions of Intelligence Test and Part II consists of **25** questions of General Science.

PART I

INTELLIGENCE TEST

1. Find the number which *does not* fit in the group.

(1) 17

(2) 37

(3) 10

(4) 24

2. In the following series of the symbols find the appropriate alternative which can replace the question mark :

$\triangle \square \circ, \circ \triangle \square, \square \circ \triangle, ?$

(1)  $\circ \triangle \square$

(2)  $\triangle \square \circ$

(3)  $\square \circ \triangle$

(4)  $\circ \square \triangle$

3. In a code language symbols are used for letters. The letters and symbol may not be in the same order. Observe the given information and find the correct answer.

POT =  $\square \circ \triangle$

TAG =  $\oplus \triangle \star$

DOG =  $\square \oplus \bullet$

DOT = ?

(1)  $\star \square \bullet$

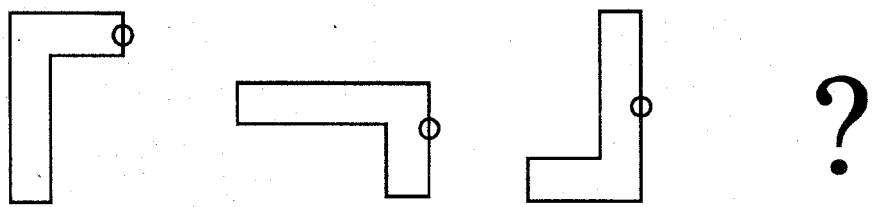
(2)  $\bullet \square \triangle$

(3)  $\oplus \square \star$

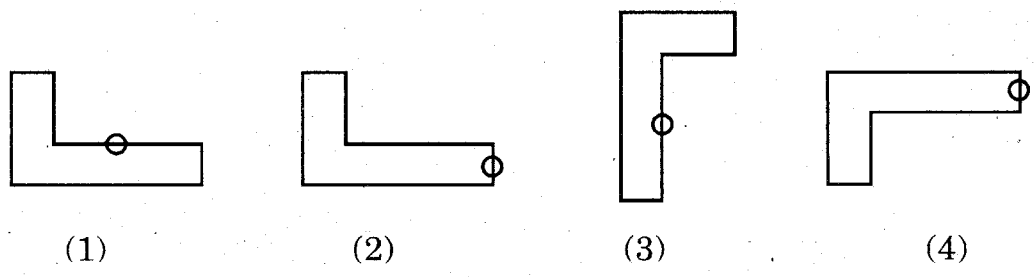
(4)  $\circ \star \triangle$

4. The question figures have a specific order. Considering that order identify the figure which can replace the question mark ?

**Question Figures**



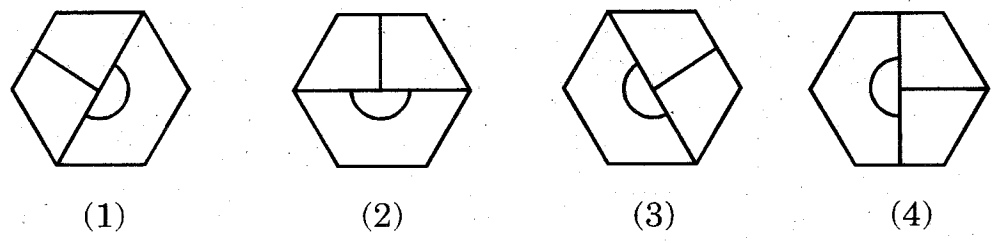
**Answer Figures**



5. Your friend's brother is lost in the fair. What will you do ?

- (1) Help to search him
- (2) Scold his mother for neglecting him
- (3) Continue with your work
- (4) Start shouting as he is not seen

6. Write the alternative which *does not* fit in the group.



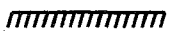
7. The sum of the ages of Mohini, Rohini and Nalini is 47 years. What was the sum of their ages three years ago ?
- (1) 44 years (2) 38 years  
(3) 41 years (4) 40 years

**Instructions for Q. Nos. 8 and 9 :**

From the following alternatives the reflection image of the question figure seen in water is to be found.

8. **Question Figure**

**Answer Figures**



(1)



(2)



(3)



(4)

9. **Question Figure**

**Answer Figures**



(1)



(2)



(3)

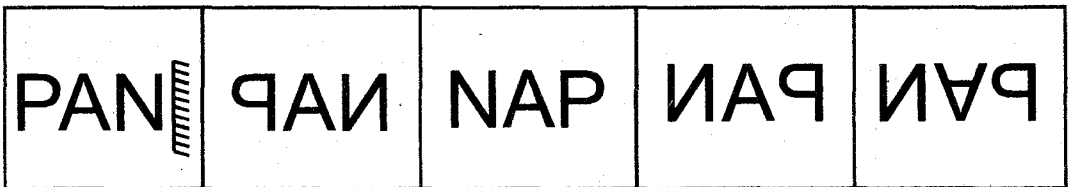


(4)

10. From the given alternatives find the mirror image of the question figure.

**Question Figure**

**Answer Figures**



(1)

(2)

(3)

(4)

**Instructions for Q. Nos. 11 and 12 :**

The first and second term have a specific relationship between them. The same relationship is observed in the third and the fourth term. Find that relationship and select the correct alternative to replace the question mark.

11.  $5 : 30 :: 7 : ?$

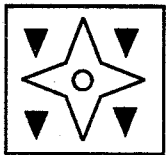
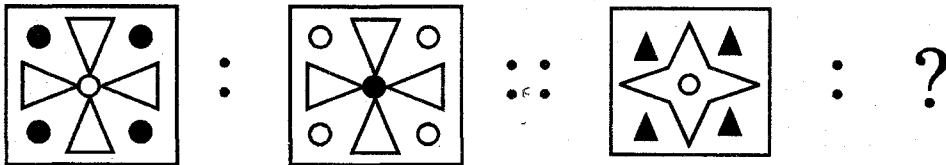
(1) 55

(2) 56

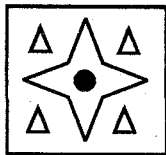
(3) 53

(4) 57

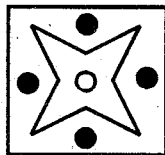
12.



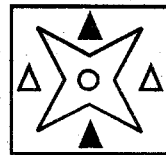
(1)



(2)



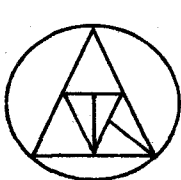
(3)



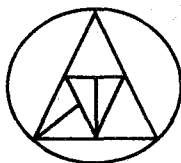
(4)

13. Find out the identical figure from the given alternatives which matches the question figure.

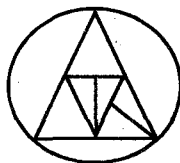
**Question Figure**



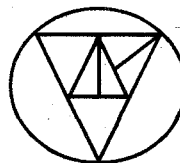
**Answer Figures**



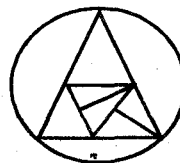
(1)



(2)



(3)



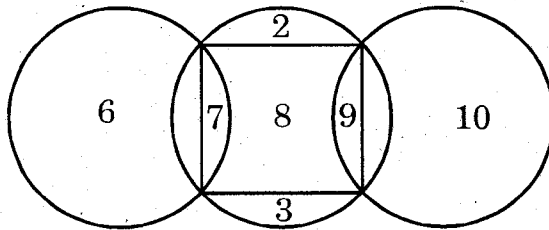
(4)

14. For the proper growth of a tree, which of the following things are necessary ?
- (1) Observe the tree regularly
  - (2) Construct a fence around the tree and water it regularly
  - (3) Worship the tree daily
  - (4) Cut the trees surrounding that tree
15. 14 trees are planted at a distance of 1 m each. What will be the distance between the first and the last tree ?
- (1) 12 m
  - (2) 13 m
  - (3) 14 m
  - (4) 15 m
16. If the word CORPORATION is written in the reverse order then which letter will be fourth from the end in the newly formed word ?
- (1) R
  - (2) P
  - (3) O
  - (4) T
17. Rajesh is facing south. If he turns at a right angle to his left, what direction would be to his right ?
- (1) South
  - (2) North
  - (3) East
  - (4) West

18. Yogesh was born on 27th January. What would be the birth date of Vijay who is older than Yogesh by 14 days ?

- (1) 17 (2) 14  
(3) 13 (4) 15

19. Observe the given diagram and answer the following question :  
What is the sum of the number included only in the circle ?



- (1) 24 (2) 5  
(3) 21 (4) 29

20. Write down the term which matches with the group :

11, 61, 31

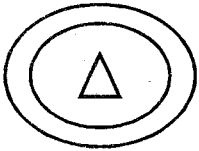
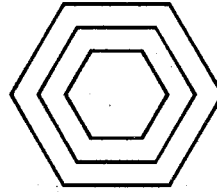
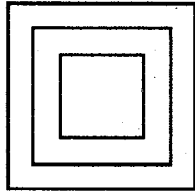
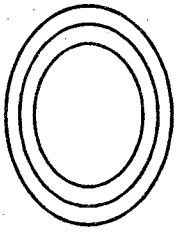
- (1) 21 (2) 51  
(3) 81 (4) 41

21. Write the correct alternative which will replace the question mark in the given number series :

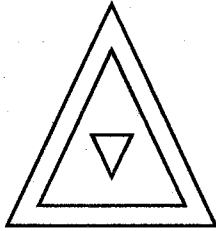
36, 49, 64, 81, ?

- (1) 12 (2) 144  
(3) 100 (4) 16

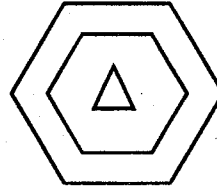
22. Given below are a group of figures. Find the correct alternative which matches the group :



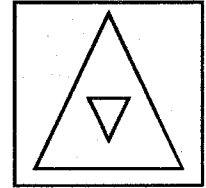
(1)



(2)



(3)



(4)

23. In a code language 3 = 12, 7 = 56 and 11 = 132. How will number '9' be written using the same code ?

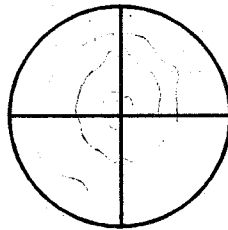
(1) 99

(2) 81

(3) 90

(4) 91

24. How many semicircles are there in the following figure ?



(1) 2

(2) 4

(3) 5

(4) 6

25. Number series : 3 4 5 7 4 3 5 7 5 7 3 4 5 7 3 7.

In the above number series 7 immediately follows 5 but 7 is not immediately before 5. How many times can you find this situation ?

(1) twice

(2) thrice

(3) four times

(4) five times



PART II

GENERAL SCIENCE

26. What is not necessary for the growth of the living beings ?
- (1) Food (2) Shelter  
(3) Air (4) Water
27. Which of the following animals *does not* fit in the group ?
- (1) Lion (2) Elk  
(3) Deer (4) Black buck
28. 'Lac' means.....
- (1) droppings of honey bee  
(2) droppings of silkworm  
(3) droppings of cockroach  
(4) droppings of butterflies
29. If plastic is burnt.....gets polluted.
- (1) air (2) food  
(3) water (4) sound
30. Which of the following plants *do not* disperse their seeds by wind ?
- (1) Lint (2) Silk-cotton  
(3) Caltrop (4) drumstick

1. Which organ controls all the functions of the body ?

(1) heart (2) brain

(3) lungs (4) eyes

2. Which type of food is good to eat ?

(1) overcooked (2) undercooked

(3) burnt (4) adequately cooked

3. Which of the following food items is prepared by fermentation ?

(1) Pedha (2) Jalebi

(3) Laddoo (4) Barfi

4. Which of the following *does not* cause air pollution ?

(1) dust particles (2) smoke

(3) contaminated gases (4) oxygen

5. We should not eat uncovered eatables because :

(1) they are not tasty (2) they are costly

(3) they are very hot (4) they are contaminated

36. If the surrounding is *not* kept clean, then :

- (1) the surrounding will look good
- (2) the air will remain clean
- (3) we will fall sick
- (4) our work will be reduced

37. Which chemical substance is used to make water safe for drinking ?

- (1) Sugar
- (2) Bleaching powder
- (3) Alum
- (4) Salt

38. How many soluble substances can you find in the following group ?

Sugar, Iron, Stone, Alum, Lump of Soil, Mirror, Brick, Salt

- (1) 4
- (2) 2
- (3) 1
- (4) 5

39. Which is the hardest substance of the following ?

- (1) Stone
- (2) Diamond
- (3) Glass
- (4) Shells

40. Which of the following substance dissolves in turpentine ?

(1) Wax

(2) Coconut oil

(3) Honey

(4) Water

41. Which of the following places receives snowfall ?

(1) Konkan

(2) Maharashtra

(3) Kashmir

(4) Rann of Kutch

42. Winter : Woollen Clothes :: Summer : ?

(1) Cotton clothes

(2) Silk clothes

(3) Warm clothes

(4) Sweater

43. The cities situated at the sea coast have humid weather because of the :

(1) Chimneys of factories

(2) Crowded population in the cities

(3) Water vapour being mixed in the air continuously

(4) Less rainfall

44. In which of the following actions, work is *not* performed ?

- (1) The jar was in the cupboard
- (2) Jeevan picked the jar from the cupboard
- (3) Jeevan pushed the jar towards his mother
- (4) Mother poured water in the jar

45. The effect of which energy, cause the photographic plates to become useless ?

- (1) Wind
- (2) Light
- (3) Sound
- (4) Mechanical

46. Which of the following is the conventional source of energy ?

- (1) Sun
- (2) Wind
- (3) Tides
- (4) Coal

47. In which type of the soil is water absorbed faster ?

- (1) Loamy
- (2) Sandy soil
- (3) Clayey soil
- (4) Humus

48. Find the word which *does not* fit in the group :

- (1) Loamy
- (2) Clayey soil
- (3) Sandy soil
- (4) Humus

49. The factor important to improve the agricultural production is.....

- (1) improved seeds
- (2) over-use of water
- (3) traditional seeds
- (4) infertile soil

50. If you keep the grain in me, insects will not enter, it will be airy and you need not worry about the fungal growth. Who am I ?

- (1) metal container
- (2) bins made of wicker and plastered with mud
- (3) plastic bag
- (4) open metal container