

Seat No.

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0503**VSA (English Medium)**

Paper No. III

Intelligence Test and

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

Pages : 16

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

.
- (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 ink 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.

3

. Write the changed answer on the right side of the box, e.g.

3

 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

Instructions for Q. 1 to 3 : Pick the term which does not belong to the given group.

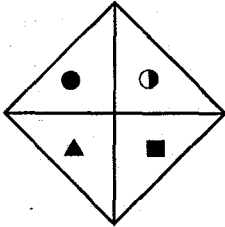
1. (1) Gold (2) Charcoal

(3) Silver (4) Iron

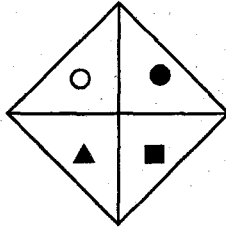
2. (1) 4123 (2) 3124

(3) 3214 (4) 5213

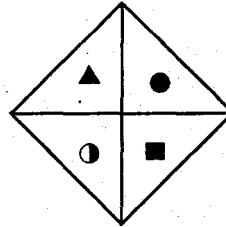
3.



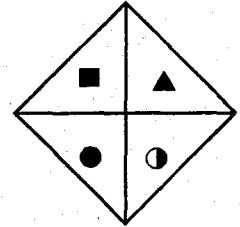
(1)



(2)



(3)



(4)

Instructions for Q. 4 and 5 : Pick the term which belongs to the given group.

4. Kite, Cat, Crow,.....

(1) Parrot (2) Camel

(3) Hare (4) Stork

5. 12, 16, 10,.....

(1) 11 (2) 18

(3) 13 (4) 19

6. From the following letters of the alphabet which meaningful word is formed by taking three consecutive letters together ?

a c d e g c a t d o

(1) dog

(2) cat

(3) cot

(4) dot

7. 9 2 7 2 2 3 4 5 2 2 1 2 3 3 7 2 8. In this number series how many times does '2' follow '7' but '7' does not follow 2.

(1) once

(2) twice

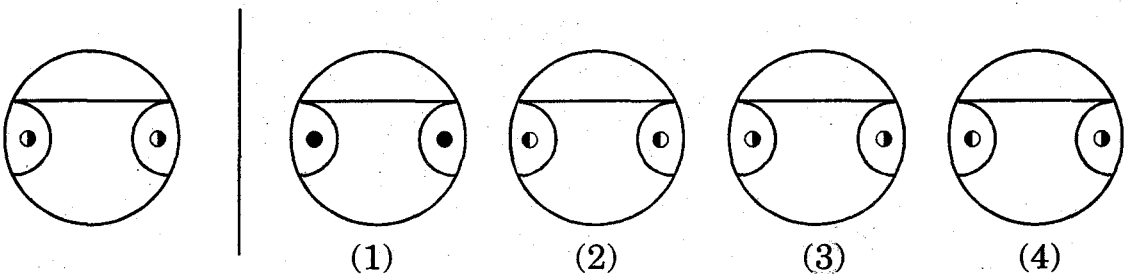
(3) thrice

(4) four times

8. Which figure of the following alternatives matches exactly with the question figure ?

Question Figure

Answer Figures



9. In a code language if 1 is called as 2, 3 is called as 4, 5 is called as 6, then what is the value of $5 + 1 + 3$?

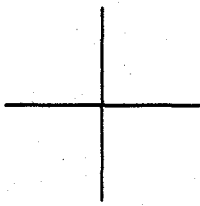
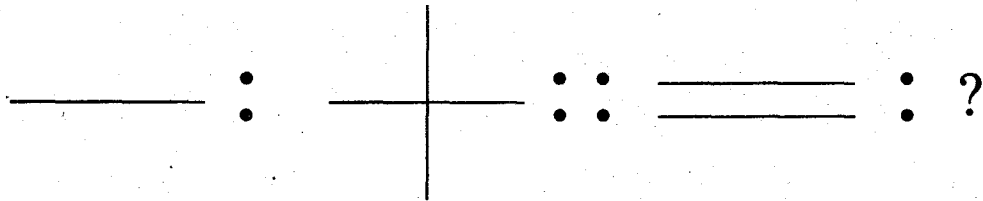
(1) 9

(2) 10

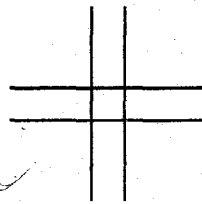
(3) 11

(4) 12

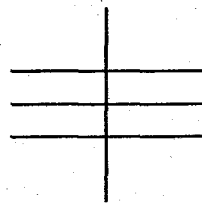
10. There is a specific relationship between the first and the second figure. The same relationship is seen in the third figure and the figure which will replace the question mark. Which figure will replace the question mark ?



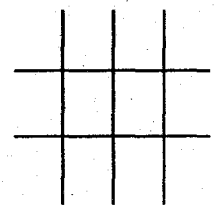
(1)



(2)



(3)



(4)

11. The first and the second term have a specific relationship. The same relationship is seen in the third term and the term which will replace the question mark. Which term will replace the question mark ?

$$8 : 65 :: 9 : ?$$

(1) 82

(2) 80

(3) 81

(4) 67

12. In the following series which number will replace the question mark ?

$$0, 2, 6, 12, 20, ?$$

(1) 28

(2) 30

(3) 32

(4) 26

13. Identify the order in the following series and write the option number which will replace the question mark (?).

○★□, □★○, ?, □★○

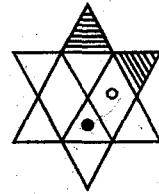
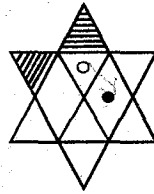
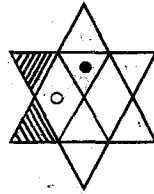
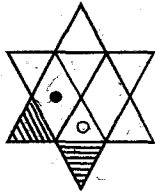
(1) □★○

(2) ○★□

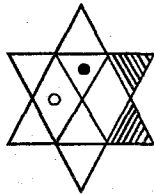
(3) ★○□

(4) □○★

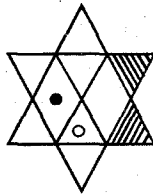
14. Identify the order amongst the following figures. Which figure will replace the question mark according to the given order ?



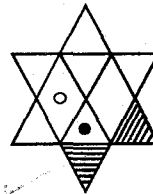
?



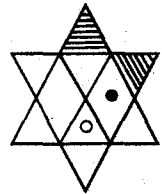
(1)



(2)



(3)



(4)

15. Find out the mirror image of the question figure from the answer figures given below :

Question Figure

Answer Figures



(1)



(2)



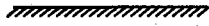
(3)



(4)

Instructions for Q. 16 and 17 : Find out the reflection image of the question figure, observed in water, from the given answer figures.

16. **Question Figure**



Answer Figures



(1)



(2)

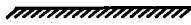
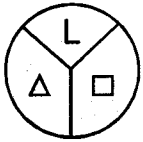


(3)

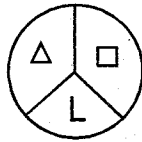


(4)

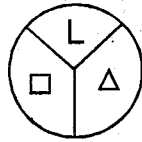
17. **Question Figure**



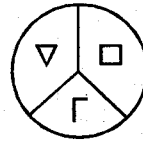
Answer Figures



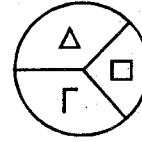
(1)



(2)

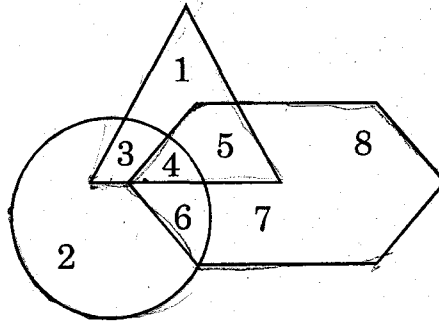


(3)



(4)

18. Observe the following Venn diagram and answer the following question.
How many numbers are there in the triangle ?



(1) 1

(2) 2

(3) 3

(4) 4

19. 40 trees are planted in a row at a distance of 5 metres each. What will be the distance between tree no. 4 and tree no. 12 ?

(1) 40 metres

(2) 60 metres

(3) 35 metres

(4) 45 metres

20. In a year if Teacher's day is celebrated on Friday, then on which day will Children's Day be celebrated in that year ?

- (1) Friday
- (2) Thursday
- (3) Saturday
- (4) Sunday

21. If a neem tree is planted in front of your house, what will you do ?

- (1) Pluck two leaves of the tree every day so that it will grow well
- (2) Neglect the tree
- (3) Observe the growth of roots by uprooting it
- (4) Take all the necessary care of the tree

22. The National Song should be sung every day because :

- (1) The country progresses because of that
- (2) It helps to improve the memory
- (3) It increases the feeling of national pride
- (4) In future we can get a job as a singer

23. **Instruction :** In a code language symbols are used for the numbers :

Number	9	8	7	6	5	4	3	2	1	0
Symbol	A	B	C	D	E	F	G	H	I	J

Using this information, find the answer of the following question :

F multiplied by I minus J = ?

(1) D ~~(2) F~~

(3) C (4) J

24. Abhijeet is facing North-east. If he turns twice towards the right at a right angle, name the direction behind him :

(1) South-west

(2) South-east

(3) North-east

(4) North-west

25. A clock takes half a minute for the gong to strike six times. How many seconds will the clock take, if the gong is struck 12 times ?

(1) 60

(2) 64

(3) 66

(4) 72

PART II

GENERAL SCIENCE

26. Which of the following animals *does not* have a neck ?

(1) elephant

(2) giraffe

(3) frog

(4) duck

27. Which of the following animals is useful to farmers ?

(1) rat

(2) ant

(3) lizard

(4) earthworm

28. Safe water means—

(1) Contaminated water

(2) Clean water

(3) Muddy water

(4) Safe for drinking

29. Which of the following animals *does not* build a shelter (dwelling) ?

(1) ant

(2) peacock

(3) sparrow

(4) rat

30. Chimneys of factories are built high because—

- (1) the factory should be seen from a distance
- (2) clean air should enter in the factory
- (3) it lets out the polluting gases high up in the air
- (4) people should know that a factory is working

31. Dispersal of seeds of a lotus plant takes place through—

- (1) wind
- (2) birds
- (3) animals
- (4) water

32. Which organ of the body is protected by the rib cage ?

- (1) lungs
- (2) brain
- (3) large intestine
- (4) small intestine

33. What does steam change into after cooling ?

- (1) Cloud
- (2) Water
- (3) Ice
- (4) Ice-cream

34. Which of the following is *not* made by fermentation ?

- (1) Idli (2) Chila (आंबोळी)
(3) Halava (4) Dosa

35. Which of the following spreads Malaria ?

- (1) Bed bug (2) Housefly
(3) Flea (4) Mosquito

36. What will happen if contaminated food is eaten ?

- (1) Stomachache (2) Cough and Cold
(3) Headache (4) Toothache

37. What happens when clouds cool ?

- (1) We have rainfall (2) Clouds become light
(3) Mist is formed (4) Dew is formed

38. I am available in many colours. You can see through me, I break if I fall down; who am I ?

- (1) tile (2) alum
(3) mirror (4) glass

39. When does the grain in the ear of a plant turns black ?
- (1) If it rains before the crop is ready
 - (2) If there is scorching heat
 - (3) If the weather turns cloudy just before the crop ripens
 - (4) If it rains after the crop is ready
40. While making tea in order to dissolve the sugar quickly :
- (1) Sugar should be added to the boiling water
 - (2) Sugar should be added to cold water
 - (3) Sugar should be added as soon as the vessel is kept on the flame
 - (4) Sugar can be added any time
41. How will you come to know that water is safe for drinking ?
- (1) by tasting it
 - (2) by looking at it
 - (3) by testing it in the laboratory
 - (4) by smelling it
42. Dew drops, mist and snowflakes are the transformations of :
- (1) water vapour in air
 - (2) dust particles in air
 - (3) waves in the sea water
 - (4) sunlight

43. In which of the following action, work is *not* performed ?

- (1) water drawn from the well
- (2) swinging action of swing
- (3) climbing down the stairs
- (4) sitting in the chair

44. Cooking of food : heat energy :: preparing salt :

- (1) tidal energy
- (2) solar energy
- (3) wind
- (4) electrical energy

45. For the movement of a fan.....energy is used.

- (1) Heat
- (2) Sound
- (3) Light
- (4) Electrical

46. Decaying of the plant remains forms.....in the soil.

- (1) humus
- (2) sandy soil
- (3) clayey soil
- (4) red soil

47. Which method of irrigation should be used to avoid wastage of water while watering the field ?
- (1) watering with motor
 - (2) watering through channels
 - (3) drip irrigation
 - (4) watering with a watering can
48. Biogas means :
- (1) biofertiliser
 - (2) biological gas
 - (3) biotechnology
 - (4) natural gas
49. A maximum wastage of foodgrains kept in the open is because of :
- (1) Snakes
 - (2) Scorpions
 - (3) Lizards
 - (4) Rats
50. Which of the following places has a humid atmosphere ?
- (1) Pune
 - (2) Nagpur
 - (3) Mumbai
 - (4) Kolhapur