

Jawahar Navodaya Vidyalaya Entrance
Very Similar Test (VST)
Medium: English

Test Booklet
Test Booklet Code



Roll Number

IBRAIN ENG JNV VST 001

Candidate's Name : _____

Candidate's Signature : _____

Time: 2 hours

Maximum Marks: 100

General Instructions for Candidates

1. You have been provided with an OMR (Optical Mark Recognition) answer sheet along with a 16-page test booklet, numbered sequentially from 1 to 80. Please count the pages of the test booklet to ensure they are in the correct order and verify that the serial number and code on the test booklet match those on the OMR sheet. In case of any mismatch, error, or discrepancy between the test booklet and the OMR answer sheet, return them to the invigilator and obtain a correct test booklet and OMR answer sheet in their place.
2. Answer the questions only on the OMR answer sheet, following the example given below. Candidates must mark their answers in the appropriate space on the OMR answer sheet. Darken only one circle for each question, in accordance with the instructions provided on Page 1 of the OMR answer sheet.
3. Four possible answers are provided for each question, out of which only one is correct. Candidates must select the correct answer and blacken the circle corresponding to the chosen answer. For example: If your answer for Question No. 37 is C, then blacken the circle under C exactly as shown below.

Q.NO.	Option
37	(A) (B) (C) (D)

4. Use only a blue/black ball-point pen to write on the OMR answer sheet. Candidates must bring their own ball-point pen. The use of a pencil is prohibited.
5. The duration of the examination will be 2 hours, from 11:30 a.m. to 01:30 p.m., and it will consist of four sections containing only objective-type questions.
6. **An additional 30 minutes will be provided for 'differently-abled students'.**
7. Each candidate will be provided with a test booklet containing all four sections.
8. As per the details below, there are 80 questions totaling 100 marks. An additional 15 minutes will be provided to read the instructions.

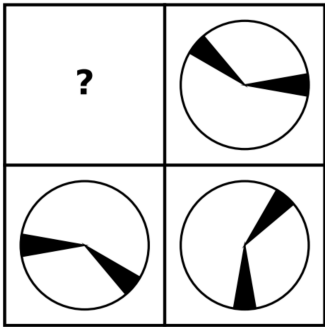
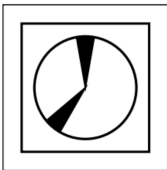
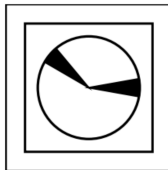
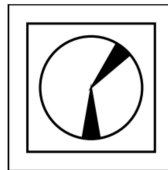
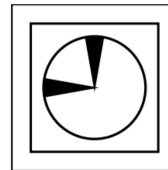
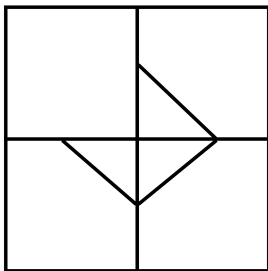
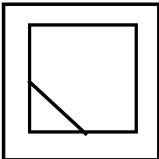
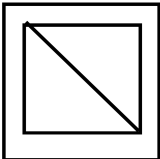
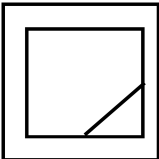
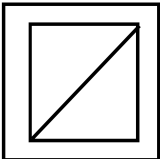
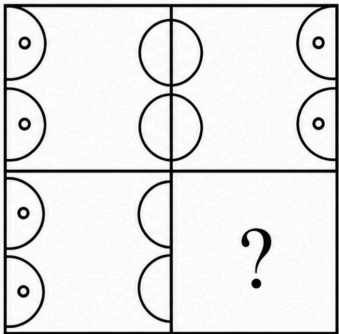
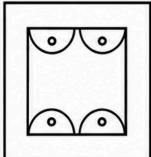
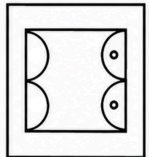
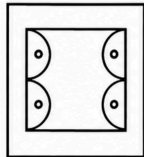
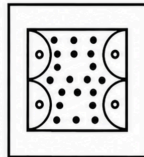
Type of examination	Section	Number of questions	Marks
Mental Ability Test	Section-I	1-20=20	25
Environmental Studies	Section-II	21-40=20	25
Arithmetic Test	Section-III	41-60=20	25
Language Test	Section-IV	61-80=20	25
Total		80	100

9. All questions must be answered. There will be equal marks for each section.
10. Overwriting, striking out, cutting, using white/correction fluid, or erasing on the OMR answer sheet is not permitted. Answers marked in such a manner will not be evaluated. Do not make any extraneous marks on the OMR answer sheet. Once an answer has been marked on the OMR answer sheet, no changes should be made to it.

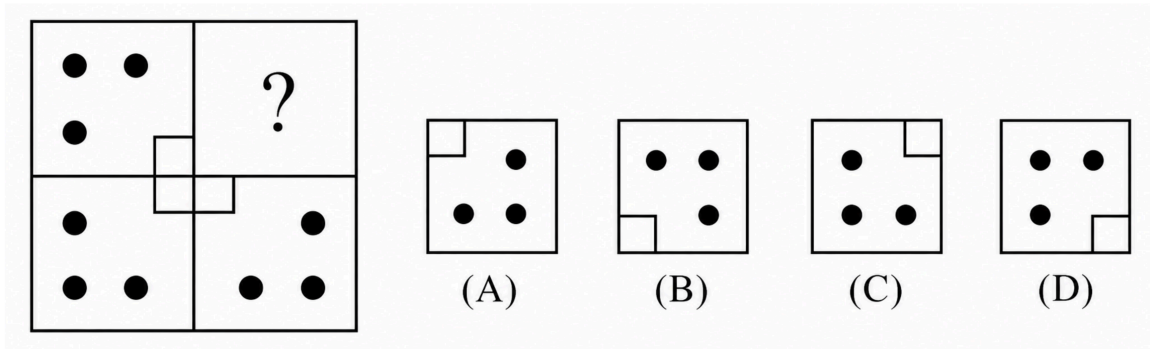
MENTAL ABILITY TEST

Part-I (Q. No 1 to 4)

Directions: In questions 1 to 4, a question figure is given on the left side, and four answer figures marked (A), (B), (C), and (D) are shown on the right side. Select the answer figure which completes the pattern of the question figure. To indicate your answer, darken the circle corresponding to the question number on the OMR answer sheet.

	Question Figure	Answer Figure
1		 (A)  (B)  (C)  (D)
2		 (A)  (B)  (C)  (D)
3		 (A)  (B)  (C)  (D)

4



Part-II (Q. No 5 to 8)

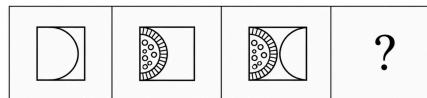
Directions: In questions 5 to 8, a series of figures is given which follow a certain pattern. Select the figure from the answer figures marked (A), (B), (C), and (D) which continues the series. To indicate your answer, darken the circle corresponding to the question number on the OMR answer sheet.

Question Figure

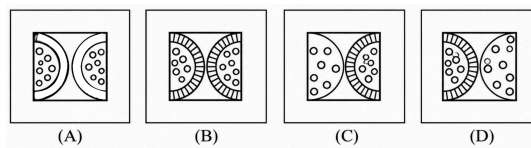
Answer Figure

5

Question Figures



Answer Figures

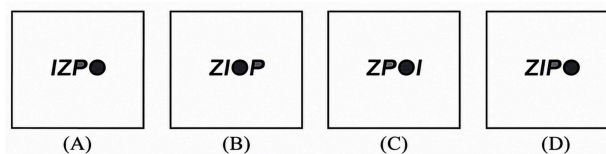


6

Question Figures

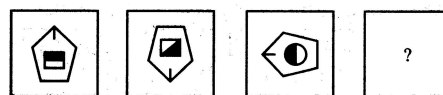


Answer Figures

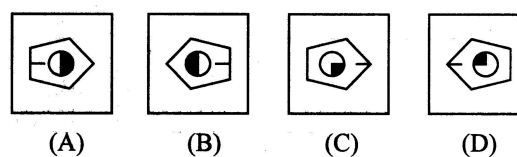


7

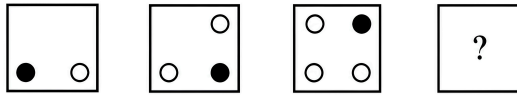
Question Figures



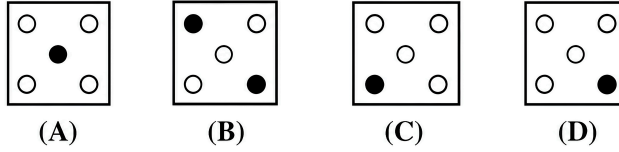
Answer Figures



Question Figures



Answer Figures



8

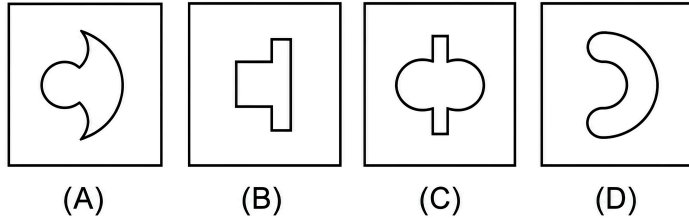
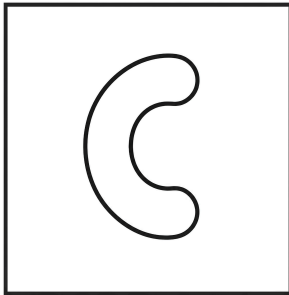
Part-III (Q. No 9 to 11)

Directions: In questions 9 to 11, a part of a geometric figure (triangle, square, or circle) is shown on the left side, and the other part is shown on the right side in the form of four answer figures labeled (A), (B), (C), and (D). Select the figure from the right side that completes the geometric figure and darken the circle corresponding to the question number on the OMR answer sheet.

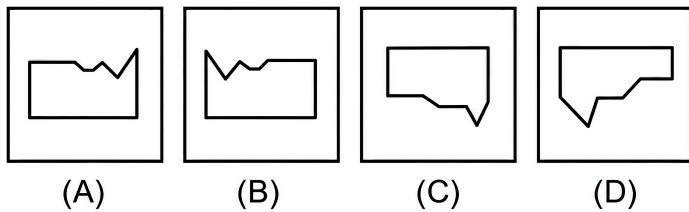
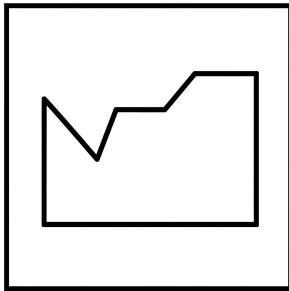
Question Figure

Answer Figure

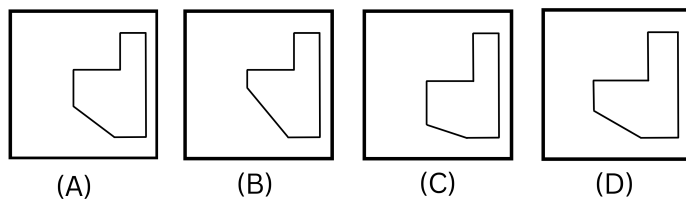
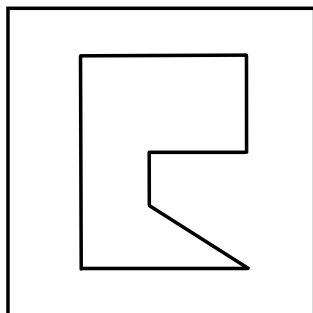
9



10

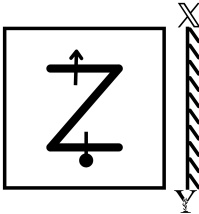
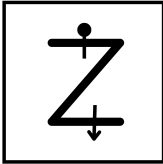
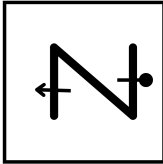
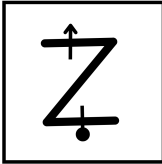
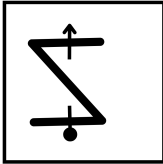
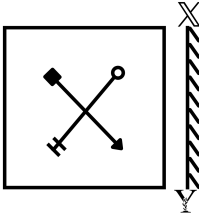
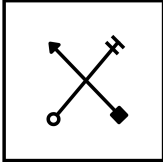
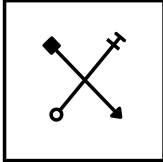
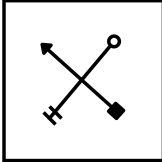
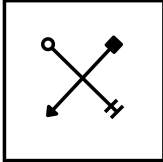
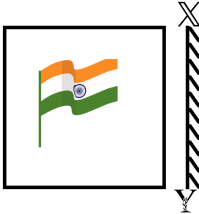
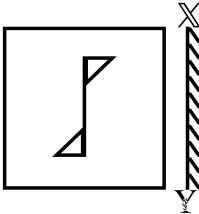
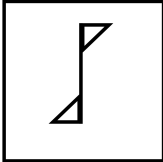
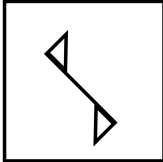
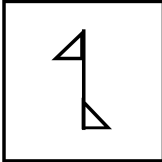
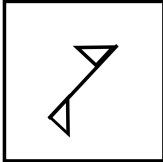


11

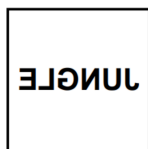


Part-IV (Q. No 12 to 16)

Directions: In questions 12 to 16, a question figure is shown on the left, and four answer figures marked (A), (B), (C), and (D) are shown on the right. Select the correct mirror image of the question figure from the answer figures when a mirror is placed along the line XY. To indicate your answer, darken the circle corresponding to the question number on the OMR answer sheet.

Question Figure	Answer Figure
12 	 (A)  (B)  (C)  (D)
13 	 (A)  (B)  (C)  (D)
14 	 (A)  (B)  (C)  (D)
15 	 (A)  (B)  (C)  (D)

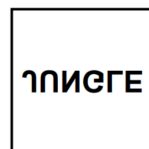
16



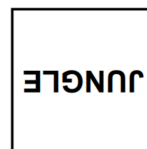
(A)



(B)



(C)



(D)

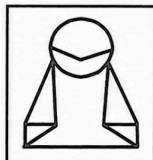
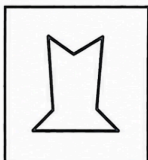
Part-V (Q. No 17 to 20)

Directions: In questions 17 to 20, a question figure is given on the left side, and four answer figures marked (A), (B), (C), and (D) are shown on the right side. Select the answer figure in which the question figure is hidden/embedded. To indicate your answer, darken the circle corresponding to the question number on the OMR answer sheet.

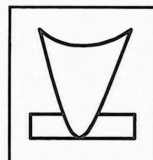
Question Figure

Answer Figure

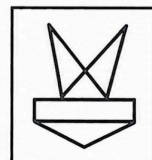
17



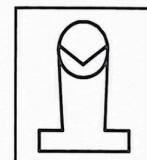
(A)



(B)

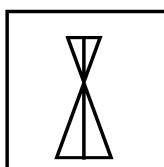
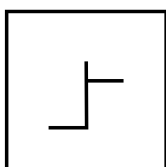


(C)

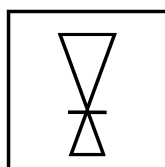


(D)

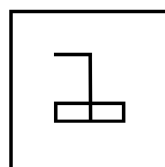
18



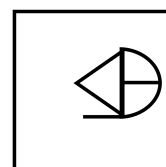
(A)



(B)

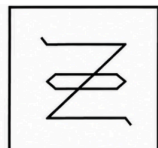
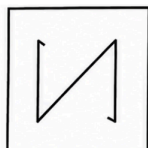


(C)

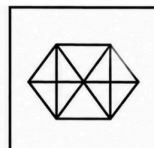


(D)

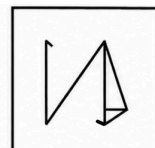
19



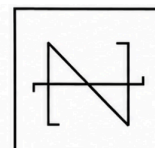
(A)



(B)

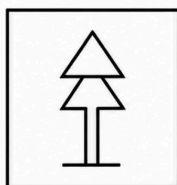
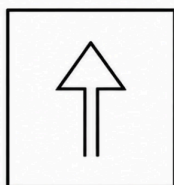


(C)

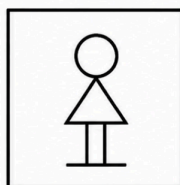


(D)

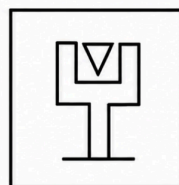
20



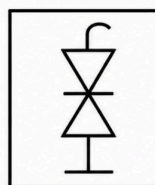
(A)



(B)



(C)



(D)

ENVIRONMENTAL STUDIES (EVS)

Direction (Q. No 21 to 40)

Q.21. Which of the following choices correctly orders 3 stages of the water cycle as presented in the chapter?

- (a) Condensation → Precipitation → Evaporation
- (b) Precipitation → Condensation → Run Off
- (c) Evaporation → Condensation → Precipitation
- (d) Run Off → Precipitation → Condensation

Q.22. According to your book, what specific environmental condition causes water vapours to directly convert into snow or ice?

- (a) Areas of very high altitude only
- (b) Areas of very low temperature
- (c) Areas of high humidity
- (d) Areas of strong winds

Q.23. Which city is the capital of Tripura?

- (a) Gangtok
- (b) Imphal
- (c) Agartala
- (d) Shillong

Q.24. The Qutb Minar holds the national record for being the tallest what?

- (a) Statue
- (b) Brick Tower
- (c) Dome
- (d) Dam

Q.25. Which two traditional structures both explicitly serve the function of recharging groundwater?

- (a) Bamboo Drip Irrigation and Tankas
- (b) Johads and Eris
- (c) Canals and Stepwells
- (d) Hand pumps and Dams

Q.26. Throughout India, rooftop rainwater harvesting involves storing water in tanks or directing it to do what?

- (a) Flow into the ocean
- (b) Recharge groundwater
- (c) Evaporate into the atmosphere
- (d) Generate electricity

Q.27. Which of the following airports is NOT located in Kerala?

- (a) Cochin International Airport
- (b) Kozhikode International Airport
- (c) Kannur International Airport
- (d) Mangalore International Airport

Q.28. Which of the following countries does NOT have a section of the Grand Trunk Road passing through it?

- (a) Bangladesh
- (b) Myanmar
- (c) India
- (d) Pakistan

Q.29. What phenomenon reduces oxygen availability for aquatic life due to the excessive growth of algae?

- (a) Eutrophication
- (b) Thermal pollution
- (c) Soil erosion
- (d) Acid rain

Q.30. Which of the following is a disease-causing microorganism that pollutes water?

- (a) Pesticides
- (b) Fungi
- (c) Viruses
- (d) Dioxins

Q.31. Which of the following states is NOT covered by the Tapi river basin?

- (a) Madhya Pradesh
- (b) Maharashtra
- (c) Gujarat
- (d) Chhattisgarh

Q.32. What is the total length of the Kaveri river?

- (a) 724 km
- (b) 805 km
- (c) 900 km
- (d) 1312 km

Q.33. Before becoming adults, where do the young ones of amphibians usually live?

- (a) High in the air
- (b) In water
- (c) On dry land
- (d) Inside thick forests

Q.34. Where do most birds build their nests?

- (a) On trees or other safe places
- (b) Underwater
- (c) In deep burrows
- (d) Inside caves

Q.35. What is the primary function of a frog's tympanum?

- (a) To sense water movements
- (b) To detect chemical changes in the air
- (c) To hear sounds clearly
- (d) To maintain balance

PASSAGE 1

Glaciers and wind are powerful exogenic agents that erode, transport, and deposit materials, creating distinct landscapes in cold and arid regions respectively. A glacier, which is a river of ice, moves slowly under gravity, uprooting boulders, soil, and stones from the bedrock beneath. This abrasive movement erodes the landscape, carving out deep hollows that fill with water as the ice melts, forming beautiful glacial lakes. The rocks, sand, and silt deposited by a glacier as it melts are called Moraines. In contrast, wind is the primary agent of erosion and deposition in dry deserts. Because wind erodes the lower sections of standing rocks

faster than their upper portions, it creates unique, top-heavy formations called Mushroom Rocks. Wind also transports sand; when its speed drops, the sand is deposited in small hills called Sand Dunes. When extremely fine and light sand particles are carried over vast distances and deposited over wide areas, they form extensive deposits called Loess, with the largest of these deposits found in China.

Q.36. What are the deposits of rocks, sand, and sediment left behind by a melting glacier called?

- (a) Loess (b) Sand Dunes (c) Moraines (d) Deltas

Q.37. Why do mushroom rocks in deserts have a narrow base and a broad top?

- (a) Desert animals carve the base of the rocks.
 (b) Water erosion is stronger at the base of the rocks.
 (c) Wind erodes the lower part of the rocks more rapidly than the upper part.
 (d) The rocks are formed from solidified volcanic lava.

Q.38. What are the small hills of sand formed by wind deposition in deserts called?

- (a) Moraines (b) Sand Dunes (c) Levees
 (d) Mushroom Rocks

Q.39. Extensive deposits of wind-blown, very fine and light sand particles deposited over wide areas are known as:

- (a) Beaches (b) Moraines (c) Loess (d) Deltas

Q.40. Compare the depositional features of glaciers and wind. Which of the following is correct?

- (a) Glaciers deposit Moraines, while wind deposits Sand Dunes and Loess.
 (b) Glaciers deposit Loess, while wind deposits Moraines.
 (c) Both glaciers and wind deposit Levees.
 (d) Glaciers deposit Sand Dunes, while wind deposits Moraines.

ARITHMETIC TEST

Direction (Q. No 41 to 60)

Q.41. Average age of family of 4 is 20. If youngest is 5 yrs old, average age before his birth was:

- (a) 15 (b) 18 (c) 20 (d) 25

Q.42. The average of 5 numbers is 100. If a number is removed, average becomes 90. Removed number is:

- (a) 120 (b) 130 (c) 140 (d) 150

Q.43. The standard form of $100 + 70 + \frac{3}{10} + \frac{9}{1000}$ is _____

- (a) 170.39 (b) 170.309 (c) 100.793 (d) 700.739

Q.44. $0.63 = ?$

- (a) $\frac{63}{100}$ (b) $\frac{63}{10}$ (c) $\frac{100}{63}$ (d) $\frac{6}{103}$

Q.45. Find the next term of the series 3, 6, 12, 24, 48, ?

- (a) 72 (b) 84 (c) 96 (d) 120

Q.46. Find the missing term in 4, 7, 12, 19, 28, ?

- (a) 37 (b) 38 (c) 39 (d) 40

Q.47. In a division dividend is 8618, quotient 159 and remainder 32. What is the divisor?

- (a) 54 (b) 45 (c) 95 (d) 75

Q.48. A factory produces 3172 breads per day. How many breads will be produced from that factory in the month of June ?

- (a) 95,160 (b) 9,560 (c) 59,560 (d) 8,160

Q.49. A square field has a semicircular flower bed on one side (diameter = side). If side = 28 m, area of the bed is:

- (a) 308 m^2 (b) 154 m^2 (c) 196 m^2 (d) 88 m^2

Q.50. 1 tractor can carry 200 bags of cement. Similarly, how many tractors will be required to transport 1000 bags of cement?

- (a) 4 nos (b) 3 nos. (c) 5 nos. (d) 7 nos.

Q.51. A bus travels 520 km. in 13 hours, how much distance will it cover in 7 hours?

- (a) 200 km. (b) 240 km. (c) 260 km. (d) 280 km.

Q.52. The L.C.M. of two or more Co-Prime numbers is given by their _____

- (a) Product (b) H.C.F (c) Smallest number
 (d) Biggest number

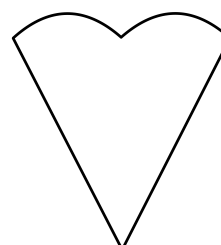
Q.53. If we eliminate one number from 5, 6, 7, 8, 9, 10 the L.C.M. of these numbers will remain unchanged as before. What is this number?

- (a) 5 (b) 5,10 (c) 5, 6, 7 (d) 8, 9

Q.54. How many English alphabets are symmetrical?

- (a) 16 (b) 14 (c) 18 (d) 20

Q.55. How many lines of symmetry possible in above figure?



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

Q.56. A number possesses exactly 8 factors. Furthermore, the number is known to be a direct multiple of 21. What is the number if it is definitively the smallest possible such number?

- (a) 42 (b) 63 (c) 84 (d) 105

Q.57. Find the smallest 3-digit number which is a multiple of 7 and leaves a remainder of 3 when divided by 4, 5, and 6.

- (a) 123 (b) 243 (c) 363 (d) 483

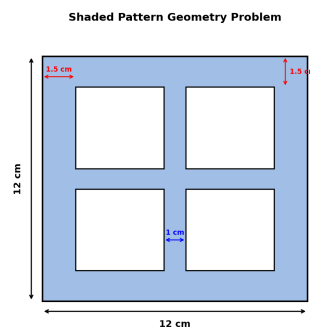
Q.58. Evaluate the difference of large squares: $(1001)^2 - (999)^2$

- (a) 2000 (b) 3000 (c) 4000 (d) 40000

Q.59. Simplify the expression with a vinculum: $16 - [9 - \{4 - (5 - \overline{4 - 3})\}]$

- (a) 5 (b) 6 (c) 7 (d) 8

Q.60. In the given figure, a decorative blue pattern is printed on a square card of side 12 cm. The shaded pattern is designed such that a border of width 1.5 cm is left unshaded along the outer edges, a central unshaded cross of width 1 cm divides the center of the card, and the remaining area forms four identical unshaded square regions. What is the total area of the blue shaded region?



- (a) 64 cm^2 (b) 80 cm^2 (c) 96 cm^2 (d) 104 cm^2

LANGUAGE TEST

Direction (Q. No 61 to 80)

Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers (A), (B), (C) and (D) are given. Only one out of these is correct. Correct the correct answer.

PASSAGE 1

The Great Wall of China is one of the largest structures ever built by human hands. It was constructed over many centuries by different Chinese dynasties, mainly to protect their empire from invasions by nomadic tribes from the north. The wall stretches for thousands of kilometres across mountains, deserts and grasslands. Millions of workers, including soldiers and peasants, laboured to build it, often under harsh conditions. Today, the Great Wall attracts millions of tourists every year and is recognised as one of the greatest engineering achievements in history.

Q.61. Why was the Great Wall of China originally built?

- (a) For trade purposes
(b) To protect the empire from invasions
(c) As a tourist attraction
(d) To mark farmland boundaries

Q.62. Choose the correct statement.

- (a) The wall was built in a single year.
(b) Only soldiers built the wall.
(c) The wall was built over many centuries.
(d) The wall is located entirely underground.

Q.63. Give the antonym of 'harsh' as used in the passage.

- (a) Difficult (b) Gentle (c) Severe (d) Rough

Q.64. Who worked to build the Great Wall?

- (a) Only foreign traders (b) Soldiers and peasants
(c) Only royal family members (d) Modern engineers

Q.65. The word 'stretches' in the passage means:

- (a) Breaks apart (b) Extends (c) Shortens (d) Stops

Once a farmer and his wife lived in a village with their small son. They loved him very much. "We must have a pet," the farmer said to his wife one day. "When our son grows up, he will need a companion. This pet will be our son's companion." His wife liked the idea. One evening, the farmer brought home a tiny mongoose. "It's a baby mongoose," said his wife, "but it will soon be fully grown. He will be a friend to our son." Both the baby and the mongoose grew. In five or six months, the mongoose had grown to its full size— a lovely animal with two shining black eyes and a bushy tail. The farmer's son was still a baby in the cradle, sleeping and crying alternately.

Q.66. A farmer lived with —

- (a) his wife (b) his wife and son (c) his son
(d) his family

Q.67. What did mongoose look when it grew ?

- (a) lovely (b) tall (c) weakly (d) fat

Q.68. How long did it take the mongoose to grow to its full size ?

- (a) five year (b) five or six years (c) six month
(d) five or six months

Q.69. When did the farmer bring with him a tiny mongoose ?

- (a) one evening (b) night time (c) one morning
(d) one afternoon

Q.70. Why did the farmer want to keep a pet?

- (a) He wanted to protect their house
(b) He wanted their son to have a companion when he grew up
(c) He liked collecting animals
(d) His wife requested to have a pet

PASSAGE 2

PASSAGE 3

A man had two black smiths for his neighbours. Their names were Mangu and Chingu. The man was greatly troubled by the noise of their hammers. He decided to talk to them. The next day he called both of them and offered Rs 100 each, if they found new huts for themselves. They took the money and agreed to find new huts for themselves. The next morning he woke up again to the sound of their hammers. He went out to see why the blacksmiths hadn't found new huts and he discovered that Mangu and Chingu had kept their promise. They had exchanged their huts.

- Q.71. 1. The man was troubled because ____
- (a) A. the blacksmiths always fought with each others
 - (b) B. the blacksmiths' hammers made a lot of noise
 - (c) C. he was afraid of blacksmiths
 - (d) D. the blacksmiths did not do their work properly
- Q.72. 2. The man gave them money because ____
- (a) A. the blacksmiths were poor
 - (b) B. the blacksmiths had asked him for money
 - (c) C. he did not want them to make a noise
 - (d) D. he wanted them to find new huts
- Q.73. 3. The man went out of his house because ____
- (a) A. he wanted to fight with the blacksmiths
 - (b) B. he wanted to ask the blacksmiths to stop the noise
 - (c) C. he wanted to find out why they hadn't found new huts
 - (d) D. he wanted his money back from the blacksmiths
- Q.74. 4. The man came to know that ____
- (a) A. the blacksmiths were not in their huts
 - (b) B. the blacksmiths had exchanged huts
 - (c) C. the blacksmiths were going away
 - (d) D. the blacksmiths had not kept their promise
- Q.75. 5. The opposite word agree is ____
- (a) A. infirm
 - (b) B. disagree
 - (c) C. refuse
 - (d) D. anger

PASSAGE 4

Sameer lived in a crowded city where tall buildings and busy roads filled every corner. But the one place he loved most was the small community library near his home. The library wasn't very big, but it had a peaceful reading room with large windows through which warm sunlight entered every morning. Sameer visited the library daily after school. One day, the librarian announced that the library was running out of funds and might have to close down. This news worried Sameer deeply. He couldn't imagine his neighbourhood without the place where he had spent countless hours reading. Determined to help, Sameer discussed the issue with his classmates and teachers. They suggested organising a 'Reading Marathon' to raise money. The event attracted parents, students, and even shopkeepers. People donated generously, and within a week, the library collected enough funds to continue operating. Sameer felt proud because he had helped save a place that brought knowledge and joy to many.

- Q.76. What was Sameer's favourite place in the city?
- (a) The playground
 - (b) The market
 - (c) The community library
 - (d) The school auditorium
- Q.77. Why was the library in danger of closing?
- (a) It had no books
 - (b) It had no visitors
 - (c) It lacked funds
 - (d) It was damaged
- Q.78. What event did Sameer and his classmates organise?
- (a) Sports competition
 - (b) Reading Marathon
 - (c) Music show
 - (d) Debate contest
- Q.79. Who participated in the event?
- (a) Only teachers
 - (b) Only students
 - (c) Parents, students, and shopkeepers
 - (d) Only librarians
- Q.80. What did Sameer feel at the end?
- (a) Angry
 - (b) Proud
 - (c) Confused
 - (d) Disappointed