

## ABOUT THE SELECTION TEST

### 1. Centre for Examination

Each candidate shall appear for the selection test at the examination centre allotted to him/her as indicated on the Admit Card. No candidate is permitted to appear from any other centre. No request for change of centre will be entertained. No candidate can appear in the selection test without the proper Admit Card. Admit card may be downloaded through the office of Common Service Centre.

### 2. Language of the Examination

Jawahar Navodaya Vidyalaya Selection Test is conducted in 21 languages. The test booklet is available in the following languages:

1. Assamese	2. Bengali	3. Bodo
4. English	5. Garo	6. Gujarati
7. Hindi	8. Kannada	9. Khasi
10. Malayalam	11. Manipuri	12. Marathi
13. Mizo	14. Oriya	15. Punjabi
16. Sindhi (Arabic)	17. Sindhi (Devnagri)	18. Tamil
19. Telugu	20. Urdu	21. Nepali

**A candidate will be given a test booklet in the language he/she has mentioned in the application form**

### 3. Composition of the Test

The selection test will be of two-hour duration and will have 3 sections with only objective type questions. There are 100 questions in all of 100 marks. Each question carries one mark:

Type of Test	Number of Questions	Marks	Duration
Mental ability Test	50	50	60 Minutes
Arithmetic Test	25	25	30 Minutes
Language Test	25	25	30 Minutes
<b>Total</b>	<b>100</b>	<b>100</b>	<b>2 Hours</b>

A single test booklet comprising of the 3 sections will be given to each candidate.

### 4. Method of Recording Answers

- A separate answer sheet will be provided. Candidates are required to indicate their answers at an appropriate place on the answer sheet itself. The Answer sheet will be of Intelligence Character Recognition (ICR)/Optical Character Recognition (OCR) Sheet. A copy of specimen Answer Sheet is enclosed.
- Only Blue/Black Ball Point Pen is to be used to write on the answer sheet.** Candidates should bring their own ballpoint pens. **Use of pencil is strictly prohibited.**
- For each question, there are four probable answers, out of which only one is correct. **The candidate is required to select correct answer and indicate correct corresponding number (1, 2, 3, 4) in the answer sheet.** Any other mode such as marking (  $\sqrt{\quad}$  ) **OR** (a, b, c, d) **OR** (A, B, C, D) etc. to indicate the answers on the answer sheet **will not be accepted.** For example if your answer for Question no. 37 is 3, write in the OMR Sheet as

37      

3
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- No change in the answer once written is allowed. Overwriting, cutting and erasing on the Answer Sheet is also not allowed.
- One mark will be given for every correct answer.
- No negative marking will be done.

## 5. About Instructions and Examples

- a) The candidate must carefully read the instructions given on the cover page of the test booklet as well as those for each test/section before attempting the questions.
- b) Candidates are advised to confirm that the test booklet received by them is of the language opted for the test. In case test booklet of correct language opted for is not provided, the candidate should get it changed before start of the examination. It is the responsibility of the candidate to obtain the test booklet of his choice as opted in the application form. No representation in this regard will be entertained after the examination is over.
- c) About one minute may be needed to answer each question. Therefore, the candidate should not spend too much of time on a particular question. If a question is found difficult to answer he/she may leave it and move on to the next one. This will help to save time. Once the candidate completes all the questions in a test, he/she may try those questions, which he/she had left in the first attempt.
- d) The total time would be two hours without any break.
- e) Securing qualifying marks in each of the three sections is essential. Candidates are advised not to spend more time on each section of test than suggested, although they are free to adjust the total time, as they like.
- f) There will be a bell after every 30 minutes.
  - a. No candidate will be allowed to appear in the selection test without proper Admit Card.
  - b. No candidate will be allowed to enter the examination hall/ room after 30 minutes of the commencement of the selection test.

## 6. Nature of the test

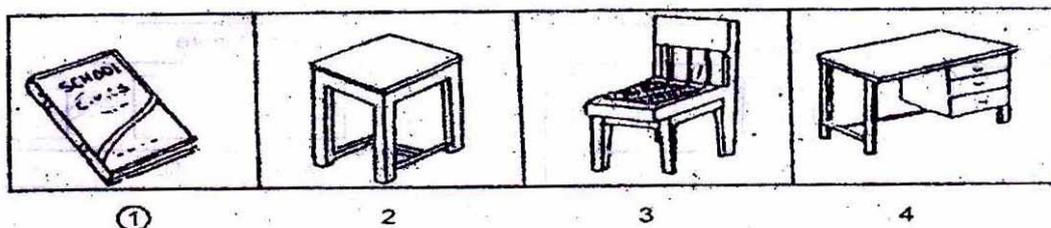
### Section-1 Mental Ability Test (MAT)

This is a non – verbal test. Questions are based on figures and diagrams only. Questions are meant to assess general mental functioning of the candidates. The section is divided into ten paras having 5 questions each. Given below are some examples:

#### PART-I ( ODD-MAN OUT)

##### Directions:

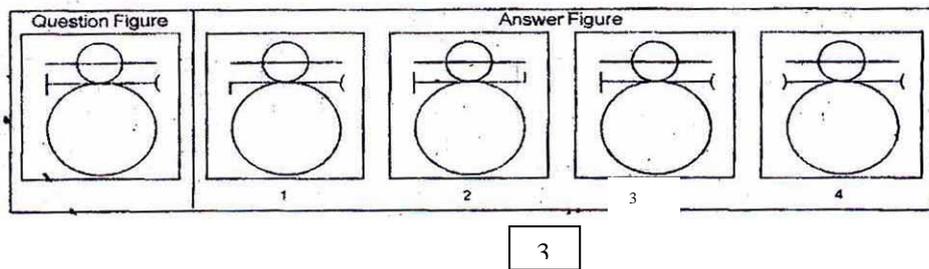
In questions 1 to 5, four figures 1, 2, 3 and 4 have been given in each question. Of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different.



#### PART- II ( FIGURE MATCHING)

##### Directions:

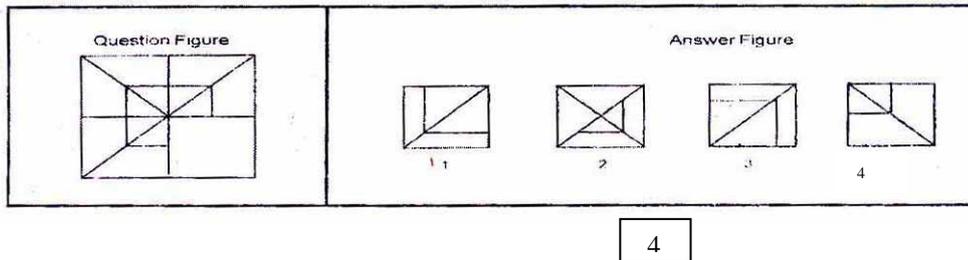
In questions 6 to 10, a problem figure is given on the left side and four answer figures marked 1, 2, 3, 4 are given on the right side. Select the answer figure which is exactly the same as the problem figure.



**PART- III ( PATTERN COMPLETION)**

**Directions:**

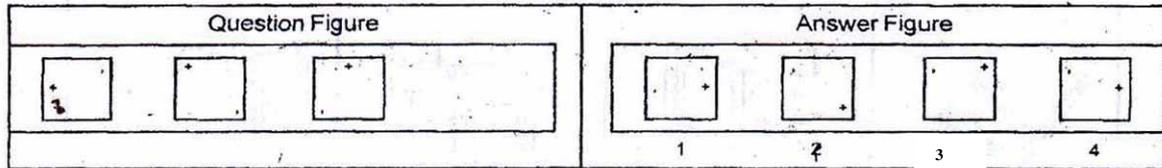
In questions 11 to 15 there is a problem figure on the left hand side, a part of which is missing. Observe the answer figures 1, 2, 3, 4 on the right hand side and find out the answer figure which without changing the direction, fits in the missing part of the problem figure in order to complete the pattern in the problem figure.



**PART- IV ( FIGURE SERIES COMPLETION)**

**Directions:**

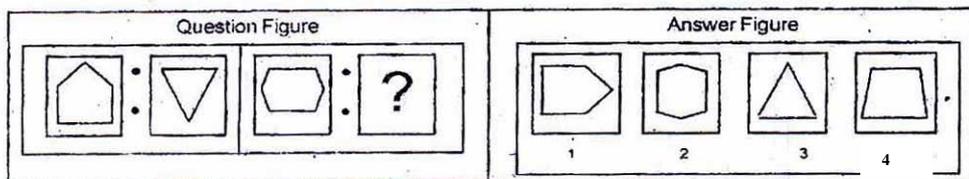
In questions 16 to 20, there are three problem figures on the left hand side and the space for the fourth figure is left blank. The problem figures are in a series. Find out one figure from among the answer figures given on the right hand side, which occupies the blank space for the fourth figure on the left hand side and completes the series.



**PART - V ( ANALOGY)**

**Directions:**

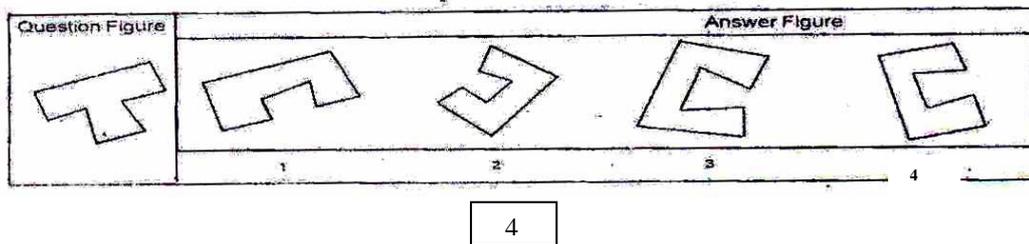
In questions 21 to 25, there are two sets of two problem figures each. The second set has a mark of interrogation (?). There exists a relationship between the first two problem figures. Similar relationship should exist between the third and fourth problem figure. Select one of the answer figure which replaces the mark of interrogation.



**PART - VI { Geometrical Figure Completion (Triangle, Square, Circle) }**

**Directions:**

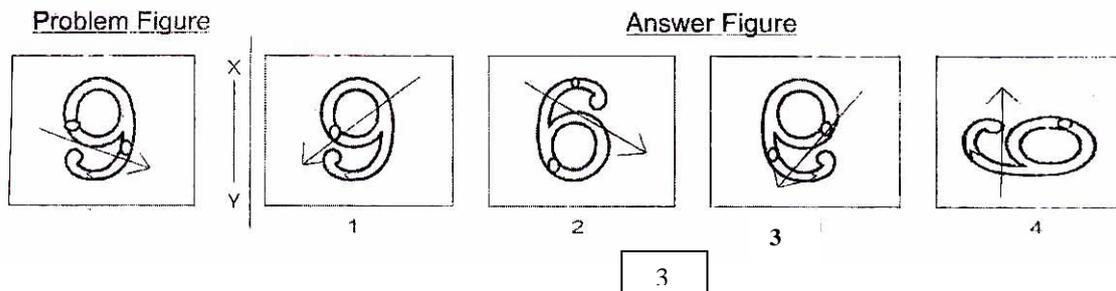
In questions 26 to 30 one part of a square is on the left hand side as question figure and the other one is among the four answer figures 1, 2, 3, 4 given on the right hand side. Find out the figure that completes the square.



**PART - VII (MIRROR IMAGING)**

**Directions:**

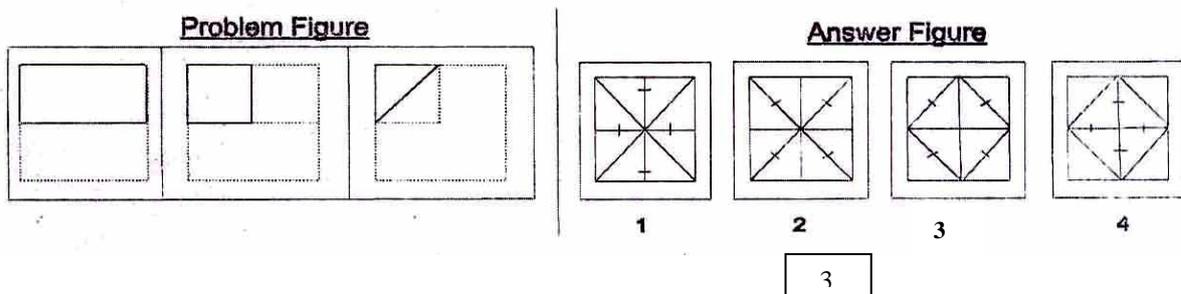
In questions 31 to 35 there is a problem figure on the left side and four answer figures marked 1, 2, 3, 4 are given on the right side. Select the answer figure which is exactly the mirror image of the problem figure when the mirror is held at X Y.



**PART - VIII (PUNCHED HOLD PATTERN - Folding/Unfolding)**

**Directions:**

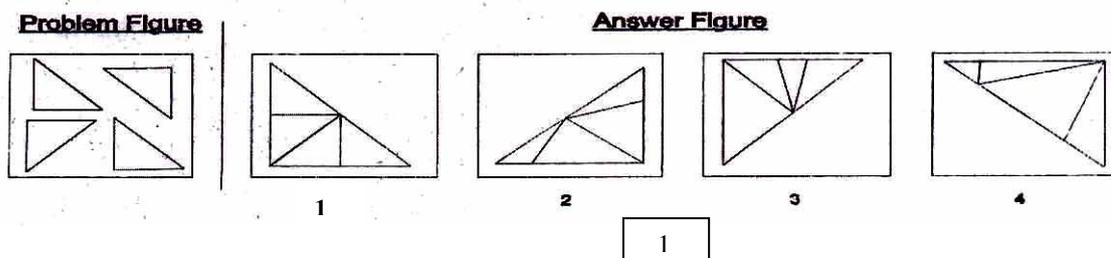
In question 36 to 40 a piece of paper is folded and punched as shown in problem figures on the left side and four answer figures marked 1, 2, 3, 4 are given on right side. Select the answer figure which indicates how the paper will appear when opened (unfolded).



**PART - IX (SPACE VISUALISATION)**

**Directions:**

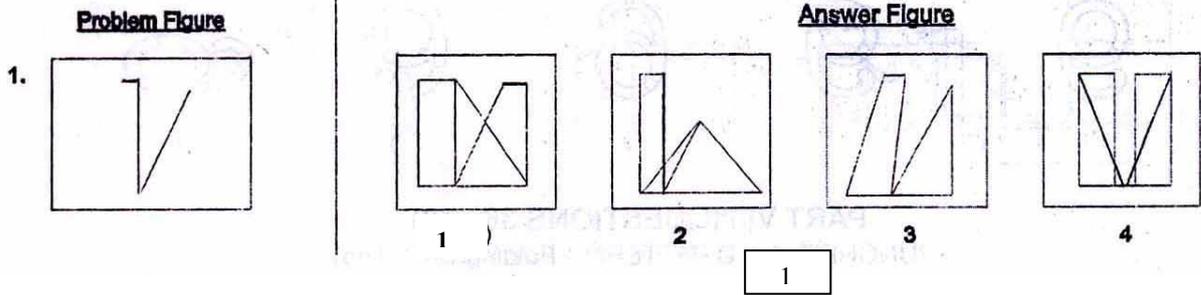
In questions 41 to 45 a problem figure is given on the left side and four answer figures, marked 1, 2, 3, 4 are given on the right side. Select the answer figure which can be formed from the cut-off pieces given in the problem figure.



**PART - X (EMBEDDED FIGURE)**

**Directions:**

In questions 46 to 50 a problem figure is given on the left side and four answer figures, marked 1, 2, 3, 4 are given on the right side. Select the answer figure in which the problem figure is hidden/ embedded.



## Section 2: Arithmetic Test

The main purpose of this test is to measure candidate's basic competencies in Arithmetic. All the Twenty-five questions of this test will be based on the following 15 topics

1. Number and numeric system.
2. Four fundamental operations on whole number.
3. Fractional number and four fundamental operations on them.
4. Factors and multiple including their properties.
5. LCM and HCF of numbers.
6. Decimals and fundamental operations on them.
7. Conversion of fractions to decimals and vice-versa.
8. Applications of number in measure length, mass, capacity, time, money etc
9. Distance, time and speed.
10. Approximation of expressions.
11. Simplification of Numerical Expressions,
12. Percentage and its applications.
13. Profit and loss.
14. Simple interest.
15. Perimeter, area and volume.

Note:- Emphasis will be more on testing of understanding and Application of the concepts and skills involved. In order to provide some guidance to the candidates on the types of questions that are expected in Arithmetic test, some examples are given below-

### Example - 1 (Test of Understanding):

What is the prime factorization of 1000?

1.  $10 \times 10 \times 10$
2.  $2 \times 5 \times 5 \times 10$
3.  $2 \times 2 \times 2 \times 5 \times 5$
4.  $2 \times 2 \times 2 \times 5 \times 5 \times 5$

A factorization of a number is said to be a prime factorization if (i) the product of the factors (taking a factor as many times as it occurs) is equal to the given number, and (ii) each factor is a prime number. Here only serial number 4 satisfies both the requirements. As such, serial number 4 is the correct answer.

### Example 2 (Test of Understanding):

What is the average of first four odd numbers?

1. 2.5
2. 4
3. 5
4. 16

The first four odd numbers are 1, 3, 5 and 7. Their average  $(1+3+5+7)/4$ . As such, serial number 2 is the correct answer.

### Example 3 (Test of Application):

A 1 km. long goods train is running at speed of 1 km. per 3 minutes, the time taken by this train to pass through 2 kms. Long tunnel is:

1. 1 minute
2. 3 minute
3. 6 minute
4. 9 minute

The tunnel is 2 km. long and the train is 1 km. in length, the train will have to cover a total distance of 3 km. in order to pass through the tunnel running at a speed of 1 km, per 3 minutes, the train will take 9 minutes to pass through this tunnel and that is the correct answer. As such, serial number 4 is the correct answer.

### Section 3: Language Test.

The main purpose of this test is to assess reading comprehension of the candidates. The test consists of three passages. Each passage is followed by 5 questions. Candidates shall read each passage carefully and answer the questions that follow. In addition, there will be 10 questions to test grammar and writing skills of candidates.

**Given below is a specimen passage and the questions that follow the passage.**

#### PASSAGE

Forests are useful to us in many ways. They provide us with timber to build houses and make furniture. Forests also provide us with wood for fuel and making paper. They provide shelter for birds, wild animals and insects. Forests bring rainfall. Existence of forests is very important for the preservation of the ecosystem. The fact that we have to care for an ecosystem is indisputably established. Wise use of the environment and its resources are essential for man's continued survival.

1. **To preserve the ecosystem, existence of.....is essential.**
  1. forests
  2. animals
  3. human beings
  4. resources
2. **Opposite of preservation' is.....**
  1. conservation
  2. construction
  3. shelter
  4. destruction
3. **Which one of the following is not a synonym of 'wise'?**
  1. Sensible
  2. Intelligent
  3. Humorous
  4. Judicious
4. **Carpenters depend on forests because they provide.....**
  1. wood for fuel
  2. wood for making paper
  3. timber to make furniture
  4. houses for animals
5. **Wild animals will become homeless if.....**
  1. paper mills are destroyed
  2. houses are built
  3. forests are destroyed
  4. ecosystem is taken care of