

## 5. Composition of the Test

The selection test will be of two-hour duration from 11:30 am to 01:30 pm and will have 3 sections with only objective type questions. There are 80 questions in all for 100 marks.

Type of Test	Number of Questions	Marks	Duration
Mental ability Test	40	50	60 Minutes
Arithmetic Test	20	25	30 Minutes
Language Test	20	25	30 Minutes
<b>Total</b>	<b>80</b>	<b>100</b>	<b>2 Hours</b>

A single test booklet comprising of all the three sections will be given to each candidate. Additional time of 40 minutes will be allowed for “Divyang students” (differently-abled students)

## 6. Method of Recording Answers

- A separate OMR (Optical Mark Recognition) answer sheet will be provided. Candidates are required to indicate their answers at an appropriate place on the OMR sheet. A copy of specimen OMR Sheet will be uploaded in the website of NVS.
- Only Blue/Black Ball Point Pen is to be used to write on the OMR Sheet. Candidates should bring their own ball point 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 the correct answer and darken the corresponding circle** of the chosen answer. For example, if your answer for Question no. 37 is C, darken the circle under C as given below.



- No change in the darkened circle is allowed. Striking, applying white/correction fluid and erasing on the OMR sheet is also not allowed. Such answers will not be evaluated.
- 1.25 marks will be given for every correct answer.
- No negative marking will be done.

**Note:** In order to facilitate the rural candidates, a set of sample questions under various sections/ categories is uploaded in the NVS website [www.navodaya.gov.in](http://www.navodaya.gov.in) under the section "Admission".

## **7. 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 section before attempting the questions. 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 the 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.
- B. The total time would be two hours without any break. Additional time of 40 minutes will be allowed for "Divyang students" (differently-abled students).
- C. 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.
- D. There will be a bell after every 30 minutes.
  - i. No candidate will be allowed to appear in the selection test without proper Admit Card.
  - ii. Candidates have to be seated in the allotted rooms latest by 11:00 a.m. late comers will not be permitted to appear for the test.
  - iii. No candidate will be permitted to leave the examination hall/room till the completion of full allotted time.

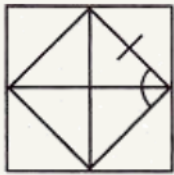
## Nature of the test

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

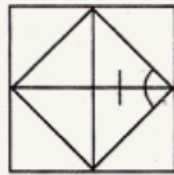
This is a non – verbal test. Questions are based on figures and diagrams only. Questions are meant to assess general mental functioning of the candidates. The section is divided into ten parts having 4 questions each. Given below are some examples:

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

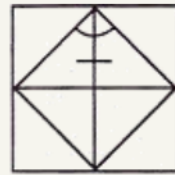
**Directions:** In questions 1 to 4, four figures A,B,C and D have been given in each question. Of these four figures, three figures are similar in some way and one figure is different. Select the figure which is different.



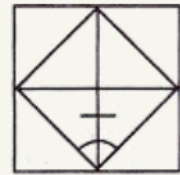
(A)



(B)



(C)



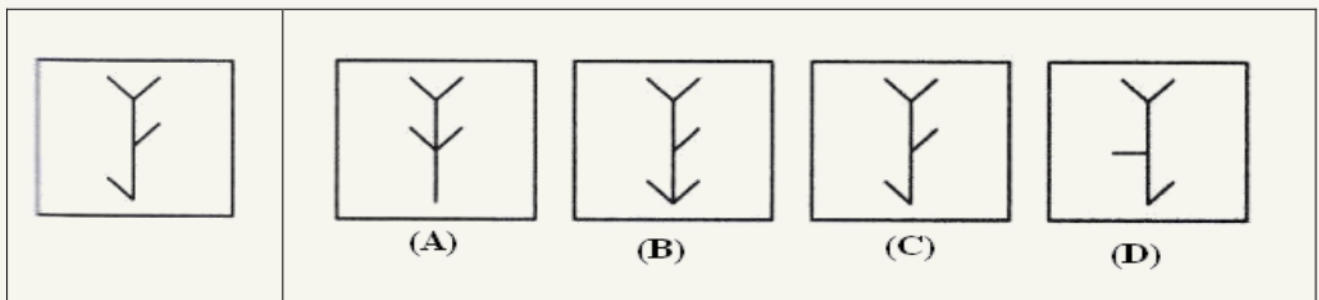
(D)

Correct answer is (A)

#### PART- II (FIGURE MATCHING)

**Directions:**

In questions 5 to 8, a problem figure is given on the left side and four answer figures marked A, B, C and D are given on the right side. Select the answer figure which is exactly the same as the problem figure.

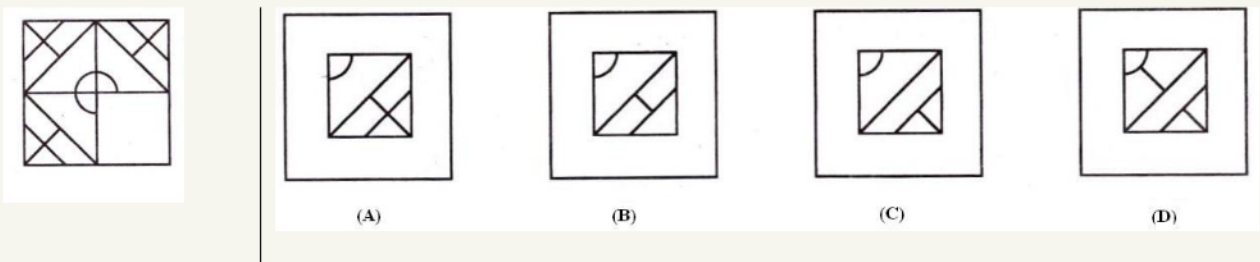


Correct answer is (C)

**Part- III (PATTERN COMPLETION)**

**Directions:**

In questions 9 to 12 there is a problem figure on the left-hand side, a part of which is missing. Observe the answer figures A, B, C and D 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.

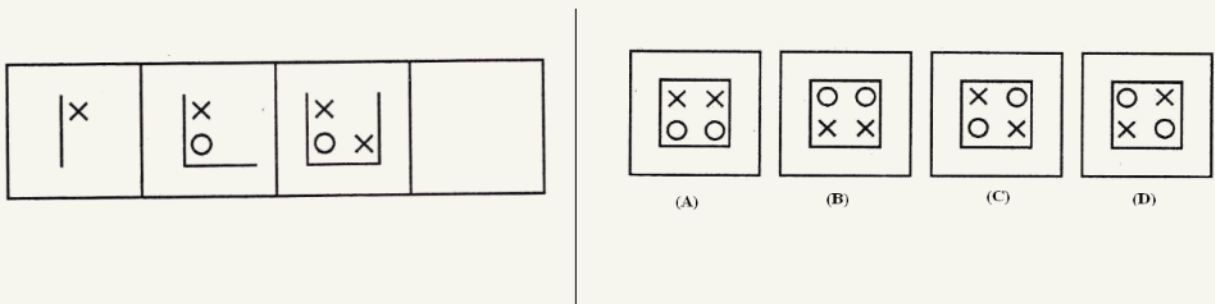


**Correct answer is (A)**

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

**Directions:**

In questions 13 to 16, 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 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.

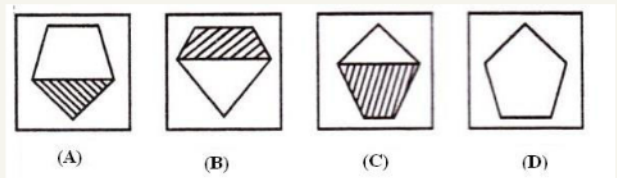
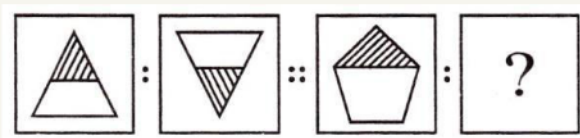


**Correct answer is (C)**

## PART-V (ANALOGY)

### Directions:

In questions 17 to 20, 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 figures which replaces the mark of interrogation.

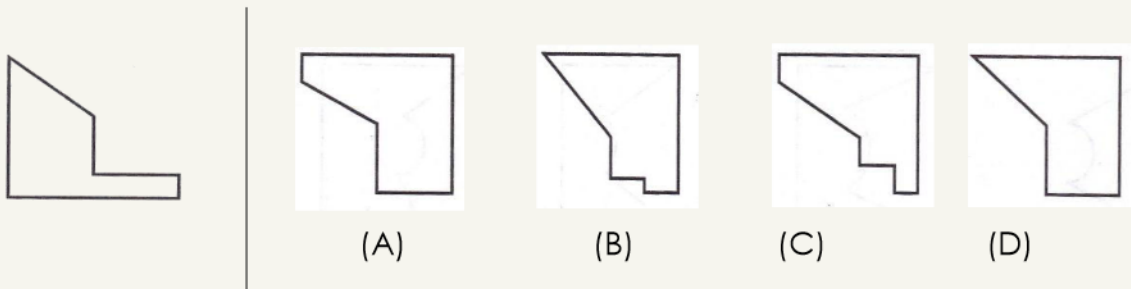


**Correct answer is (A)**

## PART - VI [Geometrical Figure Completion (Triangle, Square, Circle)]

### Directions:

In questions 21 to 24 one part of a geometrical figure is on the left-hand side as question figure and the other one is among the four answer figures A, B, C and D given on the right-hand side. Find out the figure that completes the geometrical figure.



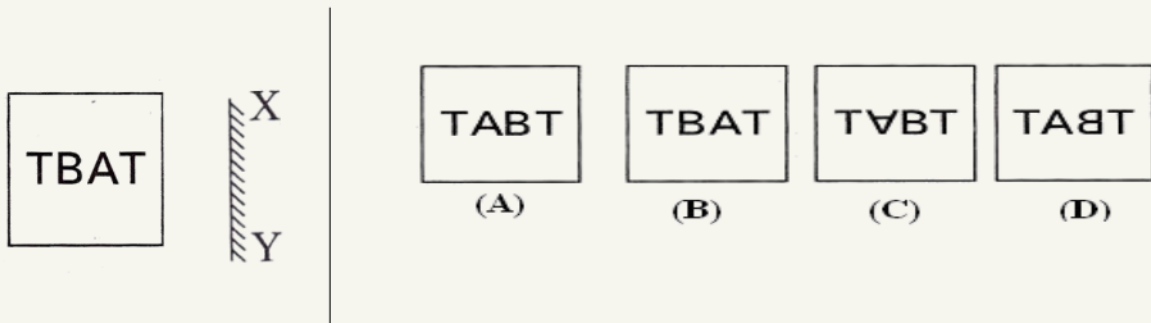
**Correct answer is (A)**

**PART – VII (MIRROR IMAGING)**

**Directions:**

In questions 25 to 28 there is a problem figure on the left side and four answer figures marked A, B, C and D 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.

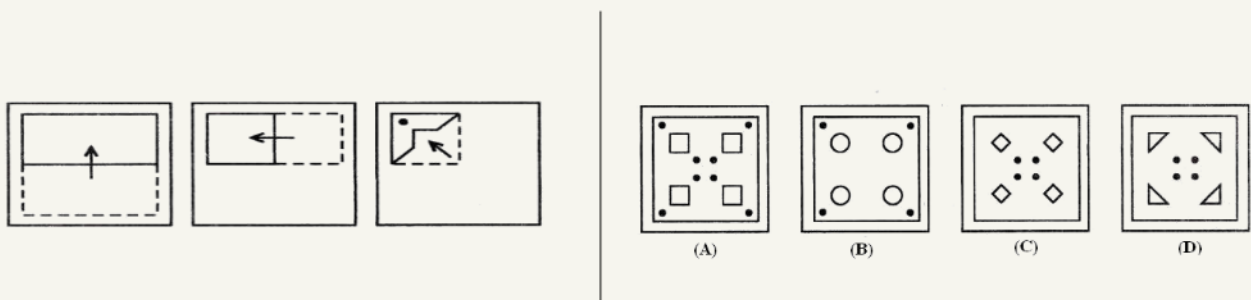
**Correct answer is (D)**



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

**Directions:**

In question 29 to 32 a piece of paper is folded and punched as shown in problem figures on the left side and four answer figures marked A, B, C and D are given on right side. Select the answer figure which indicates how the paper will appear when opened (unfolded).

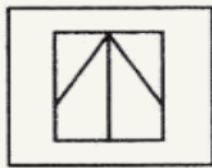


**Correct answer is (A)**

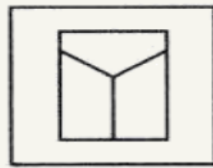
## PART - IX (SPACE VISUALISATION)

### Directions:

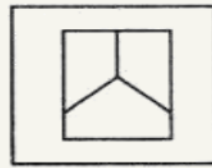
In questions 33 to 36 a problem figure is given on the left side and four answer figures, marked A, B, C and D are given on the right side. Select the answer figure which can be formed from the cut-off pieces given in the problem figure.



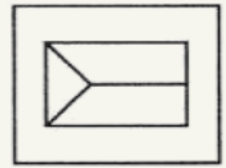
(A)



(B)



(C)



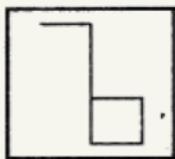
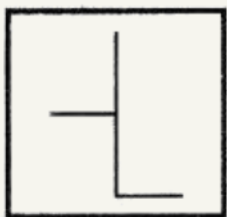
(D)

Correct answer is (D)

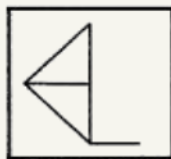
## PART - X (EMBEDDED FIGURE)

### Directions:

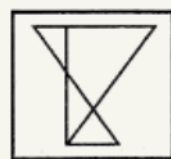
In questions 37 to 40 a problem figure is given on the left side and four answer figures, marked A, B, C and D are given on the right side. Select the answer figure in which the problem figure is hidden/ embedded.



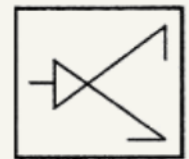
(A)



(B)



(C)



(D)

Correct answer is (B)

## Section 2: Arithmetic Test

The main purpose of this test is to measure candidate's basic competencies in Arithmetic. All the Twenty 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 multiples 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. Measurement of 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, a few examples are given below-

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

What is the prime factorization of 1000?

A.  $10 \times 10 \times 10$

B.  $2 \times 5 \times 5 \times 10$

C.  $2 \times 2 \times 2 \times 5 \times 5$

D.  $2 \times 2 \times 2 \times 5 \times 5 \times 5$

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 option D satisfies both the requirements. As such, **option D is the correct answer.**

### Example 2 (Test of Understanding):



What is the average of first four odd numbers?

- A. 5                      B. 4                      C. 5                      D. 16

The first four odd numbers are 1, 3, 5 and 7. Their average is  $(1+3+5+7)/4$ . As such, **option B 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 km. long tunnel is:

- A. 1 minute    C. 6 minutes  
B. 3 minutes    D. 9 minutes

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 the tunnel and that is the correct answer. As such, **option D 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 four passages. Each passage is followed by 5 questions. Candidates shall read each passage carefully and answer the questions that follow.

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

- A. forests    C. animals

B. human beings

D. resources

**Correct answer is A**

**2. Opposite of preservation' is.....**

A. conservation

B. Shelter

C. construction

D. destruction

**Correct answer is D**

**3. Which one of the following is not a synonym of 'wise'?**

A. Sensible

D. Judicious

B. Intelligent

C. Humorous

**Correct answer is C**

**4. Carpenters depend on forests because they provide.....**

A. wood for fuel

C. timber to make furniture

B. wood for making paper

D. houses for animals

**Correct answer is C**

**5. Wild animals will become homeless if.....**

A. paper mills are destroyed

C. forests are destroyed

B. houses are built

D. ecosystem is taken

**Correct answer is C**