

# **JAMIA SCHOOL SYLLABUS FOR ADMISSION TEST**

## **CLASS-6<sup>th</sup> (2021 – 2022)**

### **Instructions to Candidates Appearing in the Admission Test**

1. The duration of the test for Classes VI is two hours.
2. The OMR sheet must be handed over to the invigilator before leaving the examination hall.
3. There will be no rechecking/re-evaluation of the test booklet.
4. There will be no negative marking in the admission tests of different classes/streams.
5. The use of a calculator is not allowed.
6. Test papers for classes VI will be in English, Hindi and Urdu languages.

### **Subject-wise Break-up of Marks for Admission Test for class VI Syllabus for Admission Test**

<b>Test Sections</b>	<b>No. of Questions</b>	<b>Marks</b>
<b>Environmental Studies (EVS)</b>	<b>50</b>	<b>50</b>
<b>Mathematical and Numeracy skill Test</b>	<b>25</b>	<b>25</b>
<b>Language (English) Test</b>	<b>25</b>	<b>25</b>
<b>Total</b>	<b>100</b>	<b>100</b>

This Test Paper will consist of 100 multiple choice objective type questions.

## Section-1 Environmental Studies (EVS)

Questions under this section will be based on the NCERT textbook prescribed for Class V. Questions are meant to assess the candidate's knowledge about environmental awareness. The section will have 50 MCQs based on the following topics/subtopics.

### 1. Super Senses:

- How do animals find their food?
- Activities for sound, smell, touch and sight. Blindfolding activities.
- Why is the tiger in danger?
- What do we take from animals?

### 2. A Snake Charmers Story:

- People who depend on animals.
- To be sensitive about cruelty to animals.
- People teasing/ troubling animals in the zoo and other places.

### 3. From Tasting to Digesting:

- How do we taste food?
- Our mouth tastes and even digests food. What happens to the food we eat?
- What is glucose?
- Why do we give glucose to patients?

### 4. Seeds & Seeds:

- Growing plants.
- Study germination of some seeds.
- How does a plant grow from a seed?
- Experiment to determine conditions suitable for germination (air and water) Preparing and maintaining a small garden in the school. Where does the seed come from? Have you seen seeds that fly/stick to your clothes/drift in the water?

### 5. Experiments with Water:

- Classification of things around to see which float, which sink and which mix with water. Hands –on activity to observe solubility in water, floatation.
- List out things that float/sink in water by showing experiments. Objects float in salt water.
- Coins and water experiment.

#### 6. A Treat for Mosquitoes:

- Mosquitoes and malaria.
- Is there any stagnant water in your locality?
- Do you find more mosquitoes in stagnant water? Is there any way to reduce the mosquitoes in water?
- Have you heard of malaria?
- In which season do you find more people getting ill with malaria?

#### 7. Up You Go:

- Mountains.
- Expeditions and the spirit of adventure.
- Some ideas of training for high altitude.
- National Flag. -Identifying some other flags.

#### 8. Walls Tell Stories:

- Oldest buildings.
- Heritage building as a source of knowledge.
- To be able to understand how they were built, places from where the materials came. Skills of craftsperson, some historical personalities.

#### 9. Sunita in Space:

- Basic exposure to the aerial view of the earth and what India looks like from there. How to show the gravitational pull.
- The sky in the day and night.
- What do you see in the sky –at day time? And at night? How many of the things you see in the sky are man-made?

#### 10. What If It Finishes: Fuels used in vehicles.

- List out different vehicles and the fuel used. Find out the present rates of a liter of different fuels like petrol, diesel, CNG etc.
- Do all vehicles need petrol to run on?
- What other fuels do you know that are used for vehicles e.g. trains, tractors etc.
- Do all vehicles run an equal distance on a liter of fuel? Other purposes for which petroleum is used.
- The formation of petroleum.
- By-products of petroleum.
- Air and noise pollution and diseases caused.

#### 11.A Shelter So High: shelter

- Why different houses?
- Why do you have different kinds of houses in different places? (regional difference, difference due to climate and materials available, economic status, etc.)
- Different houses in the same place?

#### 12. When the Earth Shook:

- Disaster and trauma of losing one's home. Collect pictures and newspaper clippings and make an album on different natural calamities. Community help.
- Find out names of organizations that extend help during natural calamity e.g., address and the phone numbers of fire station, nearby hospital, ambulance, police station.
- Times of emergency.
- Have you heard of houses being damaged by floods/earthquakes /fires /storms?
- What would it have felt like? Who are the people who come to help? Where can we look for help? Who runs such an organization? What can you do to help others before the doctor comes?
- Do's and don'ts during earthquakes.

#### 13. Blow Hot, Blow Cold:

- Our breathing observation.
- Breathing in and out and observing the difference.

- Blowing air to warm and cool.
- Counting heartbeat and breathing rate.
- Inviting a doctor.
- How many times do you breathe in a minute-on sitting still, just after a run? How do you blow to make something cold? Do you also blow to keep a fire going?
- Classifying the musical instruments into ones that make sound by blowing air, Percussion instruments.

#### 14. Across the Wall:

- Types of games and sports.
- Make a list of indoor and outdoor games. Commonwealth games. Gender stereotyping.
- The games that are played on gender bias. Should games for boys and girls be different? Women achievers in different fields.
- Equal opportunities to girls at home and outside. List of Games and sports played as a team Importance of team spirit in games Some popular national and international teams of Local games /martial arts Changing nature of leisure.
- What do you do in the evening for leisure? What if there is no T V?

#### 15. No Place for Us:

- Shifts in habitation-migration/transfers/demolition Displacement associated difficulties.
- The difficulties faced by the people and their children who are displaced.
- Are all people benefited from the dams built in the name of development?

#### 16. Whose Forests?

- Places where there were trees /forests earlier but now there are none.

- Why were the trees cut and what is there today? Forest and forest people. Need and problems associated with deforestation.
- Interdependence of plants, animals and human beings.
- Effects of deforestation.
- Right to forest Act.
- Jharkhand Jungle Bachao Andolan.
- Chipko Movement
- Van Mahotsav
- Jhoom farming
- list of common resources.

## Section 2: Mathematical and Numeracy skill Test

The main purpose of this test is to measure candidate's basic competencies in Mathematics. All the Twenty-five questions of this test will be MCQ type and will be based on the following topics/subtopics:

### 1. The Fish Tale

- Representing numbers on a Place value chart (Indian & International)
- Numeral and number names.
- Short form/ expanded form of numbers.
- Formation of the smallest and greatest number using 3,4 & 5 digits.
- Rounding of numbers to nearest tens, hundreds and thousands.
- Word problems on addition and subtraction, measurement-length, weight, capacity, speed, distance and time.
- Conversion of units.

## 2. Shapes and Angles

- Drawing of a ray, line and line segment.
- Drawing of different open and closed shapes.
- Make shapes using match sticks, understand that polygons with the same sides have different shapes because of different angles.
- Drawing and comparing different angles using line segments and rays.
- Angles made by hands of a clock.
- Angles in names.
- Observe bridges and tower [diagonal beams which divide the shapes into triangles.

## 3. How many Squares?

- Measuring the perimeter of irregular shapes using thread. Finding the area of a triangle using a square grid.
- Creating new shapes out of a square (tile) to make floor patterns.
- Draw rectangles of 12 squares in different ways on a dot grid. Find the perimeter. Make shapes with straight lines to cover the given area on a graph paper.

## 4. Parts and wholes

- Generation of fractions equivalent to a given fraction. Divide a rectangle into 6 parts in different ways.
- Divide the given shapes in equal parts in different ways.
- Understands different types of fractions- Like/Unlike fractions, Unit fractions, Proper and Improper fractions, mixed fractions. Conversion of improper fractions into mixed numerals and vice versa.

## 5. Does it look the same?

- Make a pattern from a drop of color.
- Drawing the other mirror half of the given picture.

- Distinguish symmetrical and asymmetrical figures from the given figures/objects.
- Pictures of clock/mouth of different animals /exercise postures or other diagrams to show different symmetrical and asymmetrical shapes.
- Observing and drawing different shapes on rotating  $1/3$ ,  $1/2$ ,  $1/4$ ,  $1/6$  etc.

#### 6. Be my multiple, I'll be your factor

- Meow and dice game to give the concept of multiple.
- Write multiples of given numbers and also find out common multiples. Finding LCM of given numbers.
- Arrange the groups of different things with a fixed number in different ways (concept of factor) (Things used Bangles, seeds, pencils etc.)
- Arranging bangles into equal groups possible for a given no. of bangles. For example, 6,  $1 \times 6$ ,  $2 \times 3$ ,  $3 \times 2$ ,  $6 \times 1$ .
- List the factors of given two no. and write the common factors in the common region. Finding HCF of given numbers.
- On a 1 to 100 number grid, color multiples of 2 with red, 3 with blue and 4 with yellow. Pick the numbers which have all the three colors (Prime and composite numbers).
- Making factor tree of a given number.
- Solving problems related to factors and multiples.

#### 7. Can you see the pattern?

- Observe the patterns on gift wrappers/cloth/and try to deduce the rule. Make a vegetable block and use colors printed on paper/cloth taking  $1/4$ ,  $1/2$  turns. (clockwise/anticlockwise)
- Observe the rule in the given patterns and complete the pattern using the rules. [Magic square, Magic Hexagon,



number and number (change in order of number in the addends) Palindromes, Magic calendar etc.]

### 8. Tenths and Hundredths

- Measure the length of different things in mm and cm like notebook, pencil, eraser, pen, desk etc.
- Convert cm into mm and vice versa.
- Represent the given decimal on a square grid/graph paper. Find the value of currency of other countries in Indian currency. Representation of Indian rupees in fraction and decimal.
- Find the maximum and minimum temperatures of different cities and find their differences too.

### 9. Area and its Boundary

- Measure the length and breadth of the given things and find their area and Perimeter.
- Paste different cutouts and find their area and perimeter. Finding the perimeter and area of the class-room, display board, black board etc. Finding the perimeter and area of a given square and rectangle.
- Problem solving related to perimeter and area of square and rectangle.
- Draw two squares (one is double of the other). Find their perimeter and area and compare too.

### 10. Smart Charts

- Use of tally marks for different numbers.
- Use the tally marks to show the mode of transport used by students to commute to school.
- Collect the strength of students in classes I to V of the primary section and find the total strength. Which class has the maximum/minimum strength?

- Observe the 1/2 an hour TV programme and make tally marks for the different advertisements. Representation of data using chapati chart or pie chart.
- Making a table to record the temperature of different cities and represent the data as Bar Graph.

### Section 3: English Language Test.

The main purpose of this test is to assess the basic grammatical knowledge and reading comprehension of the candidates. The test consists of the following grammatical topics. The nature of the Questions will be of MCQ type.

#### 1. Adjectives

To underline the adjectives in a given passage.

#### 2. Nouns

Picking/identifying nouns from the given text/unseen passage.

#### 3. Simple Past Tense

To underline the past tense in a given text/passage.

#### 4. Question Words using "how" what, when, where and why

#### 5. Opposite words beginning with un-, in-, dis, -im

#### 6. Use of Punctuation

#### 7. Use of Pronoun

#### 8. Reading Comprehension

#### 9. Exclamatory Words