

#### SYLLABUS OF EVS / SCIENCE OLYMPIAD

**Living and Non- Living Things :** Living and Non-Living Things

**Plants and Animals :** Plants, Animals

**Our food and clothes :** Food We Eat, Clothes We Wear

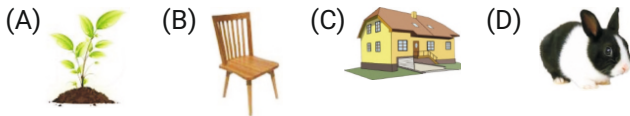
**Our environment :** Air, Water and its Resources

**Family, Neighbourhood :** Our Family and Neighbourhood, Safety Rules

**Human body :** Human body

**Reasoning and Aptitude :** Reasoning and Aptitude

1. Which one of the following can move from one place to another on its own ?



2. Identify the animal based on the characteristics given below.

i. It can live in water as well as on land.

ii. It eats insects.

iii. It uses its long sticky tongue to take its food inside.



3. Which one of the following clothes is specially made to worn during the winter season ?

(A) Shirt (B) Sweater (C) T-shirt (D) All of these



4. Identify the reptile from the following.

(A) Bear (B) Crocodile (C) Whale (D) All of these



5. Identify the cereal from the following.

(A) Black grams (B) Peas



(C) Corns



(D) Kidney beans



6. Look at the picture and complete the following sentence.

Always cross the road at \_\_\_\_\_ crossing.



(A) Horse (B) Zebra  
(C) Footpath (D) Traffic

7. \_\_\_\_\_ is a living thing because \_\_\_\_\_.



(A) It grows (B) It can make more plants  
(C) It breathes (D) All of these

8. \_\_\_\_\_ are the seeds of \_\_\_\_\_.



(A) Wheat (B) Rice  
(C) Rajma (D) Corn

9. I am green and small. I can make you cry. I am a \_\_\_\_\_.

(A) Pea (B) Chilli  
(C) Ladyfinger (D) Spinach

10. Unscramble the words given below to get the name of the home of the animal shown in the figure.

'ATSLBE'



(A) Ebstla (B) Tebsla  
(C) Stable (D) Belsta

### ANSWERS

(1) D (2) B (3) B (4) B (5) C (6) B (7) D (8) D (9) B (10) C

**SYLLABUS OF EVS / SCIENCE OLYMPIAD**

**Living and Non- Living Things :** Living and Non-Living Things

**Plants and Animals :** The Plant Kingdom, The Animal Kingdom

**Our environment :** Air, Water and Weather, Our Surroundings and Safety Rules

**Our universe :** Our universe

**Food and Clothes :** Food We Eat, Clothes We Wear

**Human body :** Parts of Human body

**Reasoning and Aptitude :** Reasoning and Aptitude

CLASS  
**2**

1. Which one of the following is true ?  
(A) Living things cannot move  
(B) Living things do not take part in reproduction  
(C) Living things do not eat  
(D) Living things take part in reproduction

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2. \_\_\_\_\_ is a non-living thing but living things drink it to survive.  
(A) Water (B) Acid  
(C) Petrol (D) Lava

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3. Which one of the following does not eat food from plant ?  
(A) Goat (B) Cow  
(C) Rat (D) Telephone

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4. Rose plant is a:  
(A) Shrub (B) Herb  
(C) Tree (D) Climber

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5. \_\_\_\_\_ is a herbivorous animal.  
(A) Rabbit (B) Dog  
(C) Cat (D) Bear

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6. A central part of our body controls all functions. Which one of the following is the name of that part ?  
(A) Muscles (B) Nerves  
(C) Brain (D) Nails

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7. Which one of the following is the source of groundwater ?  
(A) River (B) Lake  
(C) Well (D) Sea

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8. Which one of the following planets is the first planet in Solar System from the Sun ?  
(A) Earth (B) Venus  
(C) Neptune (D) Mercury

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9. Which one of the following planets in Solar System is called the outer planet ?  
(A) Mercury (B) Neptune  
(C) Mars (D) All of these

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10. Which one of the following food items is obtained from animals ?  
(A) Honey (B) Meat  
(C) Cereals (D) Both (A) and (B)

SPACE FOR ROUGH WORK

**ANSWERS**

(1) D (2) A (3) D (4) A (5) A (6) C (7) C (8) D (9) B (10) D

### SYLLABUS OF EVS / SCIENCE OLYMPIAD

**Living and Non- Living Things :** Living and Non-Living Things

**Plants and Animals :** The Plant Kingdom, The Animal Kingdom

**Matter, Motion and Transport :** Matter and Motion, Transport, Communication and Safety


**Environment and Universe :** Our environment, Air, Water and Weather, Our Universe

**Our Body :** Our Body

**Reasoning and Aptitude :** Reasoning and Aptitude

## CLASS

# 3

- Which one of the following types of movement is that of snake ?  
(A) Flying (B) Running  
(C) Jumping (D) Crawling
- Which one of the following animals has two types of respiratory organs ?  
(A) Human (B) Butterfly  
(C) Tiger (D) Frog
- Which one of the following animals does not have ear for listening ?  
(A) Lion (B) Tiger  
(C) Dog (D) Scorpion
- Aestivation and hibernation are adaptation against:  
(A) Protection from enemies (B) Extreme hot and cold condition  
(C) Living in a particular area (D) Both (A) and (B)
- The below mentioned plant is mostly grown in which one of the following types of atmosphere ?  
  
(A) Hilly areas (B) Desert  
(C) Planes (D) Hot and damp places
- Which one of the following supplies minerals to the plants ?  
(A) Humus (B) Fertilizers  
(C) Manures (D) All of these
- The thick blanket of air, which surround the earth, is called  
(A) Atmosphere (B) Biosphere  
(C) Hydrosphere (D) All of these
- I am the biggest member of the Solar System. I have my own light and without me plants can't manufacture their food. Who am I ?  
(A) Earth (B) Jupiter  
(C) Sun (D) Saturn
- Name the fastest means of transport.  
(A) Road transport (B) Rail transport  
(C) Air transport (D) Water transport
- If someone gets injured, which one of the following persons must be called ?  
(A) Gardener (B) Shopkeeper  
(C) Traffic police man (D) Doctor

SPACE FOR ROUGH WORK

## ANSWERS

(1) D (2) D (3) D (4) B (5) D (6) D (7) A (8) C (9) C (10) D

**SYLLABUS OF EVS / SCIENCE OLYMPIAD**

**Human Body** : Functioning of Human Body

**Rocks and Soil** : Rocks, Minerals and Soil

**Environment and Universe** : Our Environment, Universe

**Plants and Animals** : Plant Kingdom, Animal Kingdom

**Work, Force and Energy** : Work, Force and Energy

**Matter** : Matter

**Reasoning and Aptitude** : Reasoning and Aptitude

CLASS

4

1. The food, synthesized by the plants in the process of photosynthesis, is stored as \_\_\_\_\_.  
(A) Vitamins (B) Water  
(C) Starch (D) Both (A) and (C)

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2. Number of milk teeth in humans is:  
(A) 22 (B) 20  
(C) 24 (D) 32

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3. Which one of the following food is a rich source of carbohydrates ?  
(A) Bread (B) Egg  
(C) Milk (D) All of these

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4. The biggest sense organ of our body is:  
(A) Eye (B) Nose  
(C) Skin (D) Ear

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5. Name the gas that all animals breathe in to remain alive.  
(A) Oxygen (B) Carbon dioxide  
(C) Hydrogen (D) Nitrogen

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6. Force applied can make the \_\_\_\_\_.  
(A) Body move (B) Body stop  
(C) Change shape (D) All of the above

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7. Which of the following tells us how heavy an object is ?  
(A) Mass (B) Volume  
(C) Length (D) Temperature

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8. How many kinds of rocks are there ?  
(A) 5 kinds (B) 3 kinds  
(C) 10 kinds (D) 8 kinds

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9. The substances that cause pollution are called \_\_\_\_\_.  
(A) Dirt (B) Pollutants  
(C) Smoke (D) Both (A) and (C)

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10. Which one of the following is a part of nervous system ?  
(A) Lung (B) Kidney  
(C) Brain (D) Heart

SPACE FOR ROUGH WORK

ANSWERS

(1) C (2) B (3) A (4) C (5) A (6) D (7) A (8) B (9) B (10) C

SYLLABUS OF EVS / SCIENCE OLYMPIAD

Matter : Matter

Environment and Natural Calamities : Our Environment, Natural Calamities, Housing

Plants and Animals : Plants, Animals

Light and Sound : Light and Sound

Our Body and Nutrition : Our Body and Nutrition

Work and Energy: Matter

Reasoning and Aptitude : Reasoning and Aptitude

CLASS

5

1. Wind causes the soil erosion. Which one of the following types of soil can be easily transported by wind?  
(A) Clayey soil (B) Sandy soil  
(C) Alluvial soil (D) Residual soil
2. The shaking of the Earth is called:  
(A) Wave (B) Cyclone  
(C) Earthquake (D) Storm
3. Which one of the following is an outer planet ?  
(A) Jupiter (B) Mars  
(C) Earth (D) Mercury
4. Fireplaces are found in the\_\_\_\_\_ areas.  
(A) Hot (B) Humid  
(C) Cold (D) Desert
5. Giraffe is a mammal and all mammals including humans have same number of bones on neck. How many bones are present in its neck ?  
(A) Seven (B) Eight  
(C) Nine (D) Six
6. "If there is no light, there is no sight" the given statement is:  
(A) True (B) False  
(C) Partially true (D) Partially false
7. How much work is done on lifting a body of 1 kg upto the distance of 1 m above the ground or vertically ?  
(A) 5.6 J (B) 2.3 J  
(C) 100 J (D) 9.8 J
8. What is called the form of energy which is required to move our body ?  
(A) Muscular energy (B) Kinetic energy  
(C) Potential energy (D) None of these
9. Which one of the following is a cause of water pollution ?  
(A) Factory's wastes (B) Pesticides, insecticides, weedicides  
(C) Untreated sewage (D) All of these
10. Which of the following is not a pollutant ?  
(A) Lead oxide (B) Sulphur dioxide  
(C) Nitrogen dioxide (D) Water vapour

SPACE FOR ROUGH WORK

ANSWERS

(1) B (2) C (3) A (4) C (5) A (6) A (7) D (8) A (9) D (10) D

### SYLLABUS OF EVS / SCIENCE OLYMPIAD

**Food :** Food, Components of Food

**Materials :** Fibre to Fabric, Sorting Materials into Groups, Separation of Substances, Changes Around us

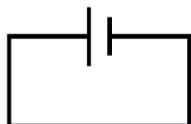
**Living World :** Body Movements, Getting to Know Plants, The Living Organisms and their Surrounding

**Motion and Measurement :** Motion and Measurement of distances

**How Things Works :** Electricity and Circuits, Fun with Magnets, Light and Shadow

**Environment :** Air, Water, Garbage In & Garbage Out

**Reasoning and Aptitude :** Reasoning and Aptitude

- Which of the following is a food substances ?  
(A) Fruits (B) Grasses  
(C) Leaves of many plants (D) All the above
- Which of the following will be more stretchable ?  
(A) Knitted fabric (B) Woven fabric  
(C) Both are equally stretchable (D) Either (A) or (B)
- Which of the following is not soluble with water ?  
(A) Copper sulphate (B) Alcohol  
(C) Wax (D) Potassium permanganate
- Hand picking method is effective in:  
(A) Gaseous mixture (B) Solid mixture  
(C) Liquid mixture (D) All the above
- Expansion of iron on heating is which kind of change ?  
(A) Chemical (B) Physical  
(C) Reversible (D) Both (B) and (C)
- Lamina is:  
(A) Upper part of pedicel which is wide.  
(B) A part of stem.  
(C) Is a type of venation.  
(D) Broad, flat, green portion of the leaf.
- Human vertebral column is divided in how many segments ?  
(A) Three (B) Five  
(C) Four (D) Six
- A car covers a distance of 40 km in first hour and 50 km in the second hour. Which type of motion is this ?  
(A) Uniform motion (B) Non-uniform motion  
(C) Periodic motion (D) Rotational motion
- Plastic, rubber, paper are examples of:  
(A) Conductor (B) Insulator  
(C) Terminals (D) Semi-conductors
- In the given circuit if X is the positive terminal and Y is the negative terminal then flow of current will be from:  
  
(A) Y to X (B) X to Y  
(C) Both (A) and (B) (D) Either (A) or (B)

SPACE FOR ROUGH WORK

## ANSWERS

- (1) D (2) A (3) C (4) A (5) B (6) D (7) B (8) B (9) B (10) B

## SYLLABUS OF EVS / SCIENCE OLYMPIAD

**How Stuff Works** : Light, Electricity, Time and Motion**Living World** : Weather & Climate and Adaptation, Soil Respiration, Transportation in Plants and Animals, Reproduction in Plants**Materials** : Fibre to Fabric, Heat, Acids, Bases and Salts, Physical and Chemical Changes**Natural Phenomena & Natural Resources** : Winds Storms and Cyclones, Water, forest**Food** : Nutrition in Plants, Nutrition in Animals**Reasoning and Aptitude** : Reasoning and Aptitude

1. The process in which absorbed food is taken in by body cells:  
(A) Absorption (B) Digestion  
(C) Assimilation (D) Egestion
2. Which of the following cannot give woollen fibre ?  
(A) Llama (B) Alpaca  
(C) Moth (D) Goat
3. One litre of water at 25°C is mixed with one litre of water at 35°C. The temperature of the mixture will be:  
(A) 60°C (B) 50°C  
(C) Between 25°C and 35°C (D) More than 35°C
4. A neutralization reaction shows a reaction between:  
(A) Acid and acid (B) Base and base  
(C) Acid and base (D) Acid and water
5. Long inactivity and metabolic depression of animals during summer is known as \_\_\_\_\_.  
(A) Hibernation (B) Aestivation  
(C) Migration (D) Camouflage
6. Cyclones that develop over Indian ocean, Bay of Bengal and Arabian sea are called:  
(A) Hurricanes (B) Cyclones  
(C) Typhoons (D) Tornadoes
7. The cell which results after fusion of gametes is called:  
(A) Spore (B) Embryo  
(C) Zygote (D) Pistil
8. Element of electric iron become red-hot on passing current because:  
(A) Colour of element is red. (B) It has very high resistance  
(C) It has a thick wire. (D) All the above
9. Image formed by a plane mirror is:  
(A) Inverted and virtual (B) Virtual and erect  
(C) Inverted and real (D) Real and erect
10. Highest water holding capacity is of:  
(A) Sandy soil (B) Loamy soil  
(C) Clayey soil (D) Gravel soil

SPACE FOR ROUGH WORK

## ANSWERS

(1) C (2) C (3) C (4) C (5) B (6) B (7) C (8) B (9) B (10) C

#### SYLLABUS OF EVS / SCIENCE OLYMPIAD

**Food :** Crop Production, Microorganisms

**How Stuff Works :** Force & Friction, Light, Sound, Chemical Effects of Electric Current

**Living World :** Cell, Reproduction, Reaching the Age of Adolescence, Conservation of Plants and Animals

**Materials :** Synthetic Fibres and Plastics, Metals and Non-metals, Coal and Petroleum, Combustion and Flame

**Natural Phenomena & Natural Resources :** Some Natural Phenomena, The Universe, Pollution of Air and Water

**Reasoning and Aptitude :** Reasoning and Aptitude

- In the production of \_\_\_\_\_ yeast is used.  
(A) Sugar (B) Alcohol  
(C) Oxygen (D) Nitrogen
- Gunny-bag method is used for:  
(A) Cultivation of crops (B) Irrigation of crops  
(C) Harvesting of crops (D) Storing food grains
- \_\_\_\_\_ is used as a solvent for dry cleaning of clothes.  
(A) CNG (B) Petrol  
(C) Lubricating oil (D) Asphalt
- Red data book keeps a record of all the:  
(A) Endangered species (B) Endemic species  
(C) Extinct species (D) Imbalanced species
- The nucleus and the cytoplasm together are known as:  
(A) Nucleoplasm (B) Cytoplasm  
(C) Protoplasm (D) Chloroplast
- Which of the following is a mode of asexual reproduction ?  
(A) Budding (B) Fragmentation  
(C) Binary fission (D) All the above
- Frequency of vibration is directly proportional to \_\_\_\_\_ of sound.  
(A) Amplitude (B) Loudness  
(C) Pitch (D) Time period
- Human eye-lens is a:  
(A) Concave lens (B) Convex lens  
(C) Concav - Convex lens (D) Convex - Concave lens
- Which one of the following devices is used for detecting electric charge on an object ?  
(A) Telescope (B) Ammeter  
(C) Electroscope (D) Coulomb
- Which one of the following carries the image formed on retina to the brain ?  
(A) Iris (B) Optic nerves  
(C) Pupil (D) Retina

SPACE FOR ROUGH WORK

### ANSWERS

- (1) B (2) D (3) B (4) A (5) C (6) C (7) C (8) B (9) C (10) B



## SYLLABUS OF EVS / SCIENCE OLYMPIAD

**Matter** : Is Matter Around Us Pure**Atoms & Molecules** : Atoms and Molecules, Structure of the Atom**Living World** : Cell, Tissues, Why do We Fall Ill**Natural Resources** : Natural Resources**Force & Motion, Gravitation** : Motion, Force and Laws of Motion, Gravitation**Work & Energy** : Work & Energy**Reasoning and Aptitude** : Reasoning and Aptitude

CLASS

9

- Which among the following has strongest intermolecular force ?  
(A) Carbon dioxide (B) Air  
(C) Sodium chloride (D) Chlorine
- To form water, Hydrogen and oxygen combine in the ratio 1:8. Find the mass of oxygen required to react completely with 3 g of hydrogen.  
(A) 4 g (B) 8 g  
(C) 16 g (D) 24 g
- Which one of the following is most difficult to separate ?  
(A) Sawdust and stones (B) Sand and Water  
(C) Rice and pulse (D) Nitrogen and Hydrogen
- Who discovered electrons ?  
(A) E. Goldstein (B) J.J Thomson  
(C) James Chadwick (D) Rutherford
- Name the property of matter due to which a body continues in its state of rest or uniform motion unless an external force acts on it.  
(A) Inertia (B) Elasticity  
(C) Viscosity (D) Density
- The rate of change of velocity of an object is called:  
(A) Displacement (B) Non uniform motion  
(C) Acceleration (D) Uniform motion
- A batsman hits the ball of mass 250 gm with his bat and the ball leaves the bat with the speed of 10 m/s. Find the work done by the bat on the ball.  
(A) 10.25 joules (B) 9.75 joules  
(C) 12.5 joules (D) 8.35 joules
- Find the weight of the body with a mass of 10 kg.  
(A) 9.6 N (B) 29.2 N  
(C) 98 N (D) 19.6 N
- The species of certain plants and animals which are present within certain region or area is called:  
(A) Zooplankton (B) Biota  
(C) Phytoplankton (D) Kingdom
- The insect vectors which cause yellow fever is:  
(A) Anopheles mosquitoes (B) Culex  
(C) Aedes (D) House fly

SPACE FOR ROUGH WORK

## ANSWERS

(1) C (2) D (3) D (4) B (5) A (6) C (7) C (8) C (9) B (10) C

