

**ATOMIC ENERGY EDUCATION SOCIETY**

**(2015-16)**

**Sub: Science**

**Sample Paper**

**Class: 6**

**SECTION: A**

**I. Choose the correct answer for each question and write a/b/c/d as applicable against the question number.**

- 1) The thin filaments of cotton and jute are called ---  
a) yarn            b) fibre            c) fabric            d) thread
- 2) Which of these is not a type of terrestrial habitat?  
a) desert            b) grasslands            c) fresh water            d) mountains
- 3) Which of the following is not associated with reproduction ?  
a) a new leaf coming out of a tree branch            b) a dog giving birth to puppy  
c) a seed growing into a plant            d) chick hatching from an egg
- 4) Which of the following can never form a circular shadow ?  
a) a ball            b) a flat disc            c) a shoe box            d) an ice cream cone
- 5) Which of the following is a non-luminous body ?  
a) moon            b) sun            c) burning candle            d) firefly
- 6) Which amongst the following will allow the electric current to pass through ?  
a) plastic comb            b) eraser            c) graphite            d) matchstick
- 7) Which one is a magnetic substance ?  
a) copper            b) aluminum            c) nickel            d) silver
- 8) The purest form of natural water is ----  
a) rain water            b) sea water            c) ground water            d) ocean water
- 9) Which of the following statements is incorrect?  
a) all living things require air to breathe            b) we can feel air but we can not see it  
c) moving air makes it possible to fly a kite            d) air is present everywhere but not  
in the soil.
- 10) Vermicomposting cannot be used for these wastes -----  
a) fruit peels            b) paper            c) tea leaves            d) aluminium foil
- 11) When the air is dry, water ----  
a) evaporates slowly            b) evaporates faster            c) does not evaporate            d) both a & c

- 12) A bar magnet is immersed in a heap of iron filings and pulled out. The amount of iron filings clinging to the-----
- North pole is almost equal to the south pole.
  - North pole is much more than the south pole.
  - North pole is much less than the south pole.
  - Magnet will be same all along its length.
- 13) Paheli is running short of connecting wires. To complete an electric circuit, she may use a----
- glass bangle
  - thick thread
  - rubber pipe
  - steel spoon
- 14) We can recycle -----
- only biodegradable waste
  - only non biodegradable waste
  - both biodegradable & non biodegradable waste
  - neither of them
- 15) Transpiration is a process in which plants -----
- receive water from the soil
  - absorb water vapour from the air
  - prepare food from water
  - release water vapour

### **SECTION: B-**

#### **II. Answer the following questions in brief .**

- Define Natural fibres. Give two examples also.
- Explain the process of making yarn from fibres.
- Paheli has a rose plant in her garden. How can she increase the number of rose plants in the garden?
  - How are the leaves in the submerged water plants adapted to their habitat?
- You have three opaque strips with very small holes of different shapes. If you obtain an image of the sun on a wall through these holes, will the image formed by these holes be the same or different?
- Boojho has an electric cell and a single piece of connecting wire. Without cutting the wire in two pieces, will he be able to make the bulb glow? Explain with the help of a circuit diagram.
- What is an electric circuit? Write the components of electric circuit.
- How will you test that "tea dust" is not adulterated with iron powder?
- Write four causes by which a magnet can be demagnetized.
- What is the effect of drought on:
  - soil & crops
  - water bodies
- Explain the following observations very briefly ---
  - a firki does not rotate in a closed area.
  - the arrow of a weather cock points towards a particular direction at a particular moment.
- It is better to use compost instead of chemical fertilizers. Give two reasons to support your answer.

### **SECTION: C- three marks questions**

**III.** Answer the following questions in 4 or 5 sentences.

- 1) Explain the method of obtaining jute fibres from jute plant.
- 2) Write one adaptive features for each of the following which help them to survive in their habitats---- a) Octopus & Squids b) Cactus c) Mountainous plants
- 3) Write three specific features present in a deer that help it to protect itself from Predators like Lion.
- 4) What is a shadow? Write four characteristics of shadow.
- 5) Describe an activity to show that light travels in a straight line.
- 6) A torch is not functioning, though contact points in the torch are in working condition. What can be the possible reasons for this? Mention any three.
- 7) What is ground water? Write two reasons for the depletion of ground water.
- 8) A bar magnet is cut into the two pieces A & B from the middle. Will the two pieces act as individual magnets? Draw diagram & Mark the poles of these two pieces. Suggest an activity to verify your answer.
- 9) What is rainwater harvesting? Explain two techniques of rainwater harvesting.
- 10) Write a few sentences for an imaginary situation if each of the following gases disappear from the atmosphere---- a) oxygen b) nitrogen c) carbondioxide. Write separately about each situation.
- 11) Write the process of preparing a vermicompost.

### **SECTION: D- four marks questions**

**IV.** Answer the following questions in detail.

- 1) a) What is a magnetic compass?  
b) Describe the construction of magnetic compass with the help of a diagram.
- 2) How will you show that empty bottle contains air in it?
- 3) a) What is the direction of flow of current in a circuit?  
b) When is an electric circuit said to be closed?  
c) Why the electric wires used at home are covered with plastic?  
d) Draw a neat and labeled diagram of an electric bulb.
- 4) a) Recently a ban on plastic bags has been imposed at many places. Is the ban justified? Give two reasons to support your answer.  
b) Beautiful hand crafted articles like decorative pieces & toys are made of paper pulp in our country. Explain how paper pulp which is made from paper can be used to make these articles?
- 5) a) What is stimulus? Give one example each of response of animals and response of plants to the stimulus.  
b) What is the significance of response to stimuli for living organisms.

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