



Roll No.	
Name	
Class & Section	

APEEJAY COMMON ANNUAL EXAMINATION, 2019-20

SCIENCE

Time Allowed : 3.00 Hrs.

Class – VI

Maximum Marks : 80

*General instructions*

- ✦ All questions are compulsory.
- ✦ Q. no 1 to 10 are very short answer type questions of 1 mark each.
- ✦ Q. no 11 to 20 are short answer type I questions of 2 marks each.
- ✦ Q. no 21 to 30 are short answer II type questions of 3 marks each.
- ✦ Q. no 31 to 34 are long answer type questions of 5 marks each.
- ✦ Draw neat labeled diagrams .

Section-A

1. Fibre extracted from the stem of a plant is used to make gunny bags. Identify the plant.
2. Conversion of Water into water vapour is a reversible change. Comment.
3. Why do desert snakes burrow deep into the sand during the day?
4. Electricians wear rubber gloves while carrying out repairs in household circuits. Give reason.
5. "Catch water where it falls" is the basic idea behind which water conserving technique?
6. Mohit observes maximum iron pins clinging at both the ends of a bar magnet. What are these endpoints known as, in a magnet?
7. While working in the kitchen Reema's mother's clothes accidentally caught fire, the neighbours rushed and covered her with woollen blanket. Why ?
8. When sunlight enters the room through a narrow passage tiny particles can be observed in the path of light. What are these?

9. A book is placed in the path of light as it travels from a source to a wall. What is observed on the wall?
10. Although moon has no light of its own yet it appears to shine at night .Give reason.

### SECTION-B

11. Bhima is a farmer and his field has black soil. The climate of the place is warm .Which fibre yielding plant should he grow? Give three uses of the fibre obtained from this plant.
12. Define the term Spinning. Name two devices used for spinning.
13. (a) Describe the changes that occur when a candle is burning.  
(b) What happens to the wick of the candle while it is burning? Is this change reversible?
14. While preparing an electric circuit to light an electric bulb the wires fall short in length. Suggest some materials which can be used between the gap to ensure the bulb lights up. What are these materials called?
15. What is the filament of a bulb? Why does the bulb stop glowing if the filament breaks?
16. Suggest an arrangement to store U-shape magnets. How is it different from storing a pair of bar magnets?
17. Give reasons for  
(a) Land covered with concrete affects the availability of ground water.  
(b) Wet floors dry up after sometime in summers.
18. Why do Mountaineers carry oxygen cylinders while climbing high mountains?
19. Classify the waste into two groups based on the colors of the dustbin used for their disposal.  
Metal foil, Egg shells, Plastic, Vegetable peels
20. List any four abiotic factors necessary for the growth of a plant.

### SECTION-C

21. (a) Differentiate between weaving and knitting. (Any 2 points)  
(b) List two clothing items which are made from knitted fabric.

22. Cotton is classified as a natural fibre while nylon is classified as a synthetic fibre. Explain. Can you give one more example of each type of fibre?
23. List few examples from daily life where :
- (a) change occurs on cooling but can be reversed
  - (b) change occurs on heating but cannot be reversed.
  - (c) change which occurs on mixing two substances, but cannot be reversed.
24. Distinguish between transparent, translucent and opaque objects. Give one example of each.
25. Anu fixes a burning candle on a table and looks at it through a straight plastic pipe, then she bends the pipe and looks at the candle again.
- (a) Would she be able to see the lit candle in both the cases? Explain.
  - (b) What do you conclude about the nature of light from this activity?
26. Recently a ban on plastic bags has been imposed in many places. Is this ban justified? Give three reasons to support your answer.
27. A simple bar of iron is to be converted into a magnet. Stepwise, explain how will you convert it into a magnet.
28. Define stimuli. Give examples of two plants that respond to stimuli.
29. Give reason for the following observations :
- (a) Bubbles come out of the soil when water is poured over it.
  - (b) Breathing from nostrils is safer than breathing from mouth.
  - (c) An empty glass bottle in fact is not empty.
30. Draw an electric circuit connecting a cell, a bulb and a switch in 'ON' position. Indicate the direction of current flowing in the circuit with the help of arrows.

#### Section-D

31. (a) Define vermicomposting.
- (b) Why waste containing salt and pickle should not be added to the pit meant for vermicomposting?

- (c) Is vermicomposting an effective way to deal with all kinds of waste? Give reason in support of your answer?
- (d) Suggest two wastes which can be added to vermicompost pit. (2+1+1+1)
32. (a) Define water cycle.
- (b) Draw a well labelled diagram of water cycle.
- (c) Even though two-third of earth is covered with water yet there is scarcity of water. Comment.
- (d) Suggest two ways to conserve water. (1+2+1+1)
33. How do following adaptive features help an organism to survive in their habitats?
- (a) Leaves of cactus are modified into spines
- (b) Dolphins and whales have blowholes on the upper part of their heads.
- (c) Camel passes very little urine and dry dung.
- (d) Deer has eyes on the side of its head.
- (e) Trees on mountains have sloping branches. (1×5)
34. (a) Plants and animals maintain the balance of oxygen and carbon-di-oxide in nature. Justify.
- (b) A burning candle is extinguished when it is covered with a glass tumbler. Give reason.
- (c) Name the major constituent of air which does not support burning. (2+2+1)