

**ATOMIC ENERGY EDUCATION SOCIETY**

**TERM –I EXAMINATION (2017-18)**

**Date of Exam - 16 Sept. 2017**

**CLASS-VIII**

**SUBJECT-SCIENCE**

**MAX.MARKS:80**

**I Choose the correct option from the options given against each question:**

**1x10=10marks**

1. Which of the following is not present in the animal cell-
  - a. Cell membrane
  - b. Plastids
  - c. Mitochondria
  - d. Vacuole
2. Almost pure form of carbon is :-
  - a. Coke
  - b. Coal
  - c. Petroleum
  - d. Natural gas
3. Which of the following will give hydrogen gas on reacting with an acid-
  - a. Sulphur
  - b. Carbon
  - c. Sodium
  - d. Oxygen
4. The agricultural task which is completed before sowing is-
  - a. Harvesting
  - b. Tilling
  - c. Weeding
  - d. Threshing
5. The unit of inheritance present on the chromosomes is-
  - a. DNA
  - b. Gene
  - c. Proteins
  - d. Nucleus
6. Copper is used to make electrical wires because-
  - a. copper is bad conductor of heat
  - b. it is malleable
  - c. it is hard
  - d. it is ductile

7. An example of the exhaustible natural resource is-
  - a. sunlight
  - b. water
  - c. coal
  - d. air
8. The condition required for the formation of fossil fuels is-
  - a. absence of air
  - b. high temperature
  - c. high pressure
  - d. all of these
9. The inflammable substance among the following is-
  - a. Petrol
  - b. Wood
  - c. Coal
  - d. Charcoal
10. Variety of plants, animals and microorganisms found in an area is called -
  - a. Flora
  - b. Fauna
  - c. Biosphere
  - d. Biodiversity

**II Answer the following questions in two or three sentences –**

**2x11=22marks**

11. Write any two advantages of tilling.
12. Define fermentation. Who discovered it?
13. Write any two methods which can be used to replenish soil with nutrients.
14. Write any two uses of rayon.
15. Why is sodium stored in kerosene?
16. What is the aim of Forest Conservation Act?
17. What do you mean by petroleum refining? Where is it carried out?
18. Why can't we burn a paper cup containing water in it?
19. What is Red Data Book?
20. Write one difference between prokaryotic and eukaryotic cell.

21. Name the cell in human body that receives and transfers messages from one part of the body to the other. Draw its diagram.

**III Answer the following questions in four or five sentences-**

**3x9=27marks**

22. Manure is considered better than fertilizers. Write three reasons.

23. How does a vaccine work? Explain.

24. Saloni took a piece of burning charcoal and collected the gas evolved in a test tube

a. How will she find the nature of the gas?

b. Write down word equations of all the reactions taking place in the process.

25. a. Name the unit in which calorific value of fuel is expressed.

b. Why does wax produce flames on burning whereas charcoal does not?

c. How does burning of fuel cause acid rain?

26. What are the three types of combustion? Explain.

27. Why should paper be saved? Write three reasons.

28. Write three differences between plant cell and animal cell.

29 a. Name the first Reserve Forest of India.

b. What was the objective of "Project Tiger"?

30. Draw a plant cell and label the following

i) Cell wall ii) Cell membrane iii) Vacuole iv) Nucleus

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

**4x4=16marks**

31. a. What are the three essential requirements for producing fire?

b. How does water help in extinguishing fire?

c. Why can't water be used to extinguish fires caused by oil?

What can be used in such a case?

32. Define with example –

a. Weedicide

b. Displacement reaction

c. Thermosetting plastics

d. Antibiotics

33.Explain any four methods of food preservation.

34.Give reasons for the following –

- a.Before storing the harvested grains, they are dried in the sun.
- b.Removal of weeds is important for the proper growth of the crop plants.
- c.Drip irrigation is a boon in regions where availability of water is poor.
- d.Seed drills are preferred for sowing seeds.

**V Value based question**

**5marks**

35.Radha’s teacher is teaching her class about fuels today. She tells them, “Always turn off the engine of your car at red lights.” The next day Radha’s father drives her to school. At the red light he does not turn the engine off. When Radha asks him to do so, he says that the light is of short duration and this won’t save the fuel.

Based on the above statement, answer the following questions –

- a.Name two liquid fuels which are generally used in vehicles. (1)
- b.Are they exhaustible or inexhaustible? (1)
- c.What values are being neglected by Radha’s father? (2)
- d.Write two ways how you can contribute towards saving these fuels.(1

----- X -----