

ATOMIC ENERGY EDUCATION SOCIETY

TERM –I EXAMINATION (2017-18)

Date of Exam - 14 Sept. 2017

Class - VII

Time- 3 Hrs

Subject- Science

Max Marks- 80

General Instructions :

1. The question paper consists of five sections.
2. Section A, contains 10 questions of 1 mark each.
3. Section B, contains 11 questions of 2 marks each.
4. Section C, contains 9 questions of 3 marks each.
5. Section D, contains 4 questions of 4 marks each.
6. Section E, contains 1 question (value based) of 5 marks.

SECTION-A

(1X10=10 MARKS)

1. Grass is rich in _____ a special kind of carbohydrate which can only be digested by ruminants-
a) Glucose b) cellulose c) sucrose d) fructose
2. Which of the following MIGHT NOT tell a chemical change has taken place?
a) Evolution of gas b) light is generated c) production of heat d) converting liquid into gas.
3. The term that is used for the mode of nutrition in yeast mushroom and bread mould is-
a) Autotrophic b) Insectivorous c) Saprophytic d) Parasitic
4. Two organisms are good friends and live together. One provides shelter, water and nutrients while the other prepares and provides food. Such an association of organisms is termed as
a) Saprophyte b) Parasite c) Autotroph d) Symbiosis
5. Long inactivity and metabolic depression of animals during winters is known as-
a) Aestivation b) Migration c) Evolution d) Hibernation
6. Which of the following statements is INCORRECT?
a) When air gets heated, it expands
b) When air gets cooled, it contracts
c) The warm air is heavier than cold air
d) Air moves from high pressure to low pressure region.

7. Removal of wool from a sheep is called-
a) Rearing b) Sorting c) Shearing d) Scouring
8. Choose the correct order of terms that describes the process of nutrition in ruminants-
a) Swallowing----> partial digestion----→ chewing of cud -----→ complete digestion
b) Chewing of cud----→swallowing-----→ partial digestion-----→ complete digestion
c) Chewing of cud----→swallowing-----→ mixing with juices ---→ digestion
d) Swallowing-----→ chewing and mixing----→ partial digestion--→ complete digestion
9. The most commonly used natural indicator 'litmus' is extracted from
a) Lichens b) turmeric c) Beet root d) China Rose
10. Stainless steel pans are usually provided with copper bottoms. The reason for this could be that
a) Copper bottom makes the pan more durable
b) Such pans appear colourful
c) Copper is a better conductor of heat than stainless steel
d) Copper is easier to clean than the stainless steel.

SECTION-B

(2X11=22 MARKS)

11. What is tornado?
12. Why do plants need nitrogen?
13. Is the distilled water acidic/basic/neutral? How would you verify it?
14. Where is bile produced? Which component of the food does it digest?
15. From which animal the wool is obtained for Pashmina shawls? Name the region where this animal is found?
16. Why is mercury chosen as indicator in thermometers?(any 2 reasons)
17. Why is it difficult to predict the weather of a place while it is easy to predict its climate?
18. Which organic acid is present in – i) curd ii) sting of ants
19. Why do wool yielding animals have a thick coat of hair?
20. Write one similarity and one difference between nutrition in amoeba and human beings.
21. Does Cuscuta (amarbel) have chlorophyll? How does it prepare its food?

SECTION-C

(3X9=27 MARKS)

22. What are indicators? Why do we use it? Give any two examples of indicators.
23. How are penguins adapted to live in the Polar Regions?(any 3 points)
24. Differentiate between land breeze and sea breeze.
25. How would you show that setting of curd is a chemical change?
26. Describe an experiment to show that pressure reduces when air moves with high speed.
27. Mention any two functions of HCl and one function of mucus produced in stomach.
28. Give reasons-
i) An antacid is taken when you suffer from acidity.
ii) Factory waste is neutralized before disposal.
29. In places of hot climate, it is advised that the outer walls of houses be painted white. Explain.
30. Write any three precautions that need to be taken in cyclone prone areas.

SECTION-D**(4X4=16 MARKS)**

31. What are the four things essential for photosynthesis? Give a well labeled diagram to show the process of photosynthesis.
32. Formation of manure from leaves is a physical change or a chemical change? Comment. Classify the changes as physical or chemical-
- a) Photosynthesis
 - b) Dissolving sugar in water
 - c) Burning of coal
 - d) Melting of wax
 - e) Beating of aluminium to form aluminium foil.
 - f) Digestion of food
33. What do you mean by sericulture? Make sketches of the stages in the life history of the silk moth which are directly related to the production of silk.
34. Draw a diagram of the digestive system and identify the following parts-
- a) Largest gland in our body
 - b) A long tube like structure through which food passes
 - c) Part where faeces are formed.

SECTION- E (Value based) (1x5= 5 marks)

35. Answer these questions.

1. Shreya's father is a builder. He is going to purchase wooden materials from near by forests to make a holiday resort . When Shreya heard that trees will be cut down from the forest, she told her father that destroying forest is not good as it is the habitat of many wild animals and advised him to reconsider his decision.
- a) How forest helps to balance oxygen and carbon dioxide in the atmosphere ? (2)
 - b) Mention two harmful effects of cutting of trees. (2)
 - c) What values does Shreya exhibit ? (1)