



**I. Multiple choice questions.**

- Irregular reflection takes place from  
(a) Dull and rough surface (b) Smooth surface (c) Polished surface (d) Plane surface.
- Which instrument is based on the principle of multiple reflection?  
(a) Telescope (b) Microscope (c) Kaleidoscope (d) All of these
- The pupil of the eye subjected to bright light becomes  
(a) Smaller (b) Dilated (c) Does not change (d) Closes.
- Disease causing microbes are called  
(a) Pathogens (b) Protozoa (c) Parasites (d) Microbes
- The nitrogen deficiency in the soil can be overcome by  
(a) Crop rotation (b) Ploughing (c) Harvesting (d) Broad casting.
- Scare crow is used to drive away  
(a) Insects (b) Birds (c) rodents (d) Microbes
- The process of separating grains from stalk and grains from the husk and chaff respectively are  
(a) Winnowing and Threshing (b) Threshing and Winnowing (c) Ploughing and winnowing  
(d) Winnowing and ploughing.
- Development of the foetus in human females takes place in the  
(a) Ovary (b) Uterus (c) Oviduct (d) Fallopian tube
- Which of the following is not a method of Asexual reproduction?  
(a) Budding (b) Binary fission (c) Multiple fission (d) Implantation
- What is formed as a result of fertilisation?  
(a) Placenta (b) Foetus (c) Zygote (d) Amniotic sac
- A bio sphere reserve conserves and preserves \_\_\_\_\_  
(a) Wild animals (b) Traditional life of people (c) natural vegetation (d) All of these.
- The death of the last individual of a species brings about its  
(a) Extinction (b) Vulnerability (c) Threat (d) Species diversity
- Movement of animals periodically to escape severe climatic conditions is called  
(a) Eutrophication (b) Migration (c) Hybridisation (d) Conservation
- Which among the following is the cleanest fuel?  
(a) Coal (b) Petrol (c) Diesel (d) CNG
- Which of the following is a renewable energy resource  
(a) Solar (b) Coal (c) Crude oil (d) LPG
- Dead organisms are transformed into petroleum and natural gas in  
(a) Absence of air (b) presence of air (c) Presence of sunlight (d) None of these
- Combustion is a reaction in which a substance reacts with  
(a) Hydrogen (b) Nitrogen (c) Oxygen (d) Carbon dioxide

18. Which is the hottest part in the flame of the candle?  
(a) Blue (b) Yellow (c) Black (d) Wax part
19. Incomplete combustion gives \_\_\_\_\_  
(a) Carbon dioxide (b) Carbon Monoxide (c) Carbon (d) Oxygen
20. Carrier of malaria causing protozoan is  
(a) Female Anopheles mosquito (b) Cockroach (c) House fly (d) Butterfly
21. The Bread or Dosa batter rises because of  
(a) Heat (b) Grinding (c) Kneading (d) Fermentation

## II. Fill in the blanks.

22. Image formed on \_\_\_\_\_ of the human eye cannot be seen.
23. \_\_\_\_\_ protects the eye.
24. \_\_\_\_\_ is an insect which transmit specific microbes causing disease.
25. \_\_\_\_\_ helps in making bread, cake, Alcohol.
26. \_\_\_\_\_ helps in preventing the upper layer of the soil from getting eroded.
27. \_\_\_\_\_ is a chemical compound which is added to the soil to improve its fertility.
28. The place where coal deposits are found are called \_\_\_\_\_.
29. Fuels which are formed by the decomposition of dead plants and animals are called \_\_\_\_\_.
30. An ideal fuel has a \_\_\_\_\_ calorific value.
31. The process of burning in the presence of oxygen is called \_\_\_\_\_.
32. Dodo is an example of \_\_\_\_\_ species.
33. Illegal hunting of animals for food and other things is called \_\_\_\_\_.
34. Tadpoles breathe with the help of \_\_\_\_\_.
35. Fusion of egg and sperm is called \_\_\_\_\_.

## III. True or false.

36. Amoeba reproduces by budding.
37. The human activities resulting in endangered species.
38. A substance does not burn unless it attains its boiling point.
39. Crude oil needs to be refined
40. Vermicomposting is done by a species of earth worm.
41. Microbes can exist in very high and very low temperatures.
42. Two plane mirrors kept at  $60^\circ$  to each other produces 6 images.

## IV. Very short answer questions.

43. Name the following
- Bacterium which helps in nitrogen fixation.
  - Fungus used in bakeries.
  - The process of conversion of sugar solution to alcohol.
  - Chemical added to a food item so that it can be stored for a long time.
44. What are weeds? Why should weeds be removed?
45. What is metamorphosis?
46. Name 4 products obtained from animals for which they are hunted.
47. Name the petroleum product used for surfacing roads.
48. When is water should not be used to extinguish fire?
49. How many images are formed when mirrors are kept parallel to each other?

## V. Answer the following.

50. Least any 2 functions of iris in a human eye.
51. Why does vision in a human eye get hampered due to cataract? How is this corrected?
52. Why carbon dioxide is used to extinguish electrical fire?

53. Paper is a combustible substance, but not a fuel. Why?
54. Why is sodium is kept under kerosene oil?
55. Write the difference between exhaustible and inexhaustible natural resources
56. Mention the reasons for conservation of forest.
57. Write the differences between endangered and extinct species.
58. Write the difference between sexual and a sexual reproduction system.
59. Write the difference between internal and external fertilisation.
60. Define animal husbandry.
61. Describe the ways of improving the soil fertility.
62. What are antibiotics? How do they work?
63. What are pathogens? How do they enter the human body?
64. Write the difference between manure and fertiliser.
65. Name the various constituents of petroleum and their uses.

**VI. Draw a neat, laddled diagram of the following.**

66. Nitrogen cycle.
67. Different zones of candle flame.
68. Male reproductive system.
69. Female reproductive system.
70. Binary fission.
71. Human eye.

**Subject Tr**

**HOD**

**Co Ordinator**

**Principal**