



CLASS IX (GENERAL SCIENCE)

Total Marks:100

Time:2 Hours

SECTION A

MULTIPLE CHOICE QUESTIONS

Each question carries 1.5 marks. (Total marks 48)

1. A nation is said to be strong on the basis of it's:
 - a) Manpower
 - b) Natural resources
 - c) Science and Technology
 - d) Economic well being
2. Science is thought to be the knowledge based on:
 - a) Assumptions
 - b) Predictions
 - c) Big ideas
 - d) Observations
3. The branch of science concerned with the relationship of our planet earth to moon, stars etc. is:
 - a) Geology
 - b) Biology
 - c) Astronomy
 - d) Meteorology
4. The normal percentage of carbon in wrought iron is:
 - a) 1.5 to 4.5%
 - b) 0.5 to 1.4%
 - c) 0.6 to 1.2%
 - d) 0.12 to 0.2%
5. Conversion of nitrates to nitrogen is called
 - a. Ammonification
 - b. Nitrification
 - c. Nitrogen fixation
 - d. DE nitrification
6. In graphite, the carbon atoms are arranged in layers of
 - a) Hexagonal arrays
 - b) Pentagonal arrays
 - c) Heptagonal arrays
 - d) Octagonal arrays

7. What is getting oxidized and reduced during cellular respiration?
- Both the carbon atoms in glucose and oxygen are reduced.
 - The carbon atoms in glucose are oxidized, and oxygen is reduced.
 - The carbon atoms in glucose are reduced, and oxygen is oxidized.
 - Both the carbon atoms in glucose and oxygen are oxidized.
8. The percentage of nitrogen in Urea is
- 36%
 - 52%
 - 46%
 - 42%
9. In the process of photosynthesis, Glucose is produced from
- Oxygen and water
 - Water and nitrogen
 - Carbon Dioxide and water
 - Carbon dioxide and nitrogen
10. The term Biotechnology relates to all of the following EXCEPT:
- Plants
 - Energy
 - Animals
 - microorganisms
11. Digestion of Carbohydrates means its ultimate conversion into
- Glucose
 - Fructose
 - Maltose
 - sucrose
12. Synthesis of organic compounds inside the body of an organism.
- Metabolism
 - Anabolism
 - Catabolism
 - Cannibalism
13. Which of the following contains the highest concentration of protein and iron?
- Meat
 - Bread
 - Citrus fruits
 - Fresh vegetables

14. Wheat, rice and maize provide:

- a) Vitamins
- b) Proteins
- c) Minerals
- d) carbohydrates

15. Which of the following parts of human body is infected because of smoking?

- a) Skin
- b) Lungs
- c) Kidneys
- d) Gallbladders

16. All of the following contribute to the greenhouse effect EXCEPT:

- a) Methane
- b) Oxygen gas
- c) Water Vapors
- d) carbon dioxide

17. Which of the following pairs of diseases is caused by viruses?

- a) Typhoid and tetanus
- b) Aids and poliomyelitis
- c) Tuberculosis and cholera
- d) Smallpox and diphtheria

18. Which of the following are caused by cigarette smoking?

- a) AIDS and cancer
- b) Asthma and measles
- c) Influenza and hepatitis
- d) Cancer and heart disease

19. Sucrose, Glucose and cellulose are classified under

- a) Fats
- b) Proteins
- c) Vitamins
- d) carbohydrates

20. Influenza is caused by

- a) Air
- b) Drinking water
- c) By mosquito
- d) By shaking hand

21. The hardest allotropic form of carbon present in nature is

- a) Graphite
- b) Charcoal
- c) Diamond
- d) Bucky ball

22. Which of the following is a greenhouse gas?

- a) Oxygen
- b) CO₂
- c) Nitrogen
- d) Ozone

23. Which of the following layers of atmosphere is the most favorable for life?

- a) Mesosphere
- b) Troposphere
- c) Stratosphere

24. Acid rain is caused by

- a) Dust particles
- b) Lead particles
- c) Carbon dioxide
- d) Sulphur dioxide

25. Deforestation plays a vital role in environmental degradation.

Deforestation causes global warming because

- a) It causes shortage of timber
- b) Trees take in oxygen from the air
- c) It removes moisture from the soil
- d) Trees take in carbon dioxide from the air

26. Deforestation leads to global warming because it

- a) Causes shortage of timber
- b) Increases oxygen in the air
- c) Removes moisture from the soil
- d) Increases carbon dioxide in the air

27. The wildlife species are not threatened by

- a) Overhunting
- b) Deforestation
- c) Habitat destruction
- d) Human overpopulation

28. A nutrient with the given characteristics is defined as

- It acts as enzyme
- It provides energy
- It contains nitrogen

- a) Fat
- b) Proteins
- c) Minerals
- d) Carbohydrate

29. The amount of minerals in soil can be increased by the use of

- a) Fertilizers
- b) Pesticides
- c) Fungicides
- d) Insecticides

30. In order to reduce air pollution we should reduce:

- a) The number of vehicles
- b) The number of trees
- c) The electrical appliances
- d) Hydral power plants

31. Which of the following is described as the average weather condition of an area

- a) Season
- b) Climate
- c) Atmosphere
- d) Environment

32. Acid rain is caused by

- a) Dust particles
- b) Lead particles
- c) Carbon dioxide
- d) Sulphur dioxide



SECTION B

Each question carries four marks. (Attempt any seven)

Q1: differentiate between allotropic forms of carbon.

Q2: write any four hazardous effects of cigarette smoking.

Q3: Define the following terms

- Nervous system
- Enzymes
- Minerals
- Fossil fuels

Q4: Suggest any four first Aid measure for snake bite.

Q5: Describe the process of respiration with reference to the role of oxygen gas.

Q6: An eminent Muslim scientist IBN UL HAITHAM made many discoveries. Mention any four of them.

Q7: Water is a universal solvent. Describe the given property of water with two reasons and two examples.

Q8: Define DNA as a hereditary material.

Q9: Explain any two bacterial Diseases.

SECTION C

Each question carries 12 marks. (Attempt any two)

Q1. A) Explain the effects of the depletion of the ozone layer on the environment.

B) Give reason due to which Ozone layer is important for the life on earth.

C) Define global warming and greenhouse effect with their impacts on climate.

Q2. A) Describe the process of photosynthesis and respiration in plants with their equation.

B) Describe in detail the importance of minerals in agriculture and industrial development.

Q3. A) What is a disease? What important factors are responsible for the spread of a disease? Name the groups of living organisms responsible for the spread of disease.

B) What are some precautionary measures to be taken to avoid infection?