

II SEMESTER EXAMINATION, FEB. - 2025

Class - IX

Time: 2 hrs.

Sub: Biology

M.M.: 100

(Candidates are allowed additional 15 minutes for only reading the paper. They must NOT start writing during this time)

This paper comprises of two sections. Attempt all the questions from section I and any four questions from section II. The intended marks for the questions or parts of question are given in the bracket [].

Q.1 Multiple Choice Questions. 15

Q.2 A) Name the following. 5

1. The nutrient whose deficiency causes goitre.
2. The expulsion of the undigested remains of food from alimentary canal.
3. The organelles were found in only animal cells.
4. The cup shaped cavity in hip girdle.
5. The hard outer part of nail.

B) Fill in the blanks. 5

1. _____ is the air breathed in and out in normal quiet breathing.
2. _____ is any agent that acts as an intermediate carrier of the pathogen.
3. The causing pathogen of cholera is _____.
4. _____ is the chemical used in control of roaches.
5. _____ is the process by which toxic substances enter the food chain.

C. Match the following.

- | | |
|-------------------|---------------|
| 1. Tetracycline | a. Typhoid |
| 2. TAB | b. Gambusia |
| 3. Sporadic | c. Cholera |
| 4. Mosquito larva | d. Goitre |
| 5. Wet scrubbers | e. Pollutants |
| | f. Plaque |

D. Define the following.

1. Synovial fluid
2. Periosteum
3. Goose flesh
4. Heterodont

Ans. Bio methanation

E. Differentiate between the following.

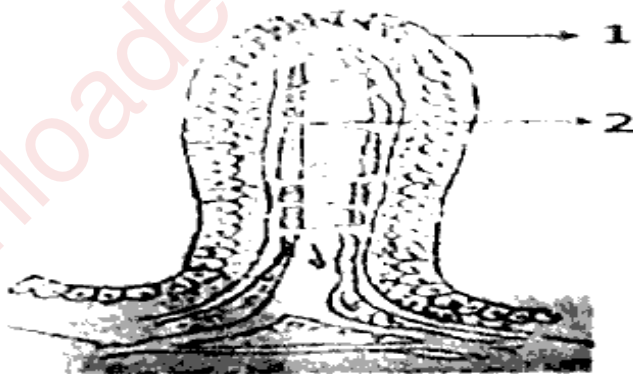
(ONE POINT)

1. Kwashiorkor and Marasmus
2. Immovable and freely movable joints
3. Disinfectants and Antiseptics
4. Vasoconstriction and Vasodilation
5. Hypoxia and Asphyxiation

Section - II

(Attempt any FOUR questions)

- a) Why are old people more susceptible to fractures? 10
 - b) Why does one feel fatigue after vigorous exercise?
 - c) What is the significance of water to our body?
 - d) State the significance of compost.
 - e) State two advantages of sanitary landfills.
- a) Study the diagram given below and answer the questions that follow. 5



- i) Name the structure shown in the diagram.
- ii) . How is this structure well adapted for absorption of digested food.
- iii) Label the parts numbered 1 and 2.

- iv) Name the lymph vessel present inside the structure.
 - v) Name the digestive juice secreted by the liver. What are the two pigments present in it?
- b) Give two examples for each of the following. 5**
- i) Derivatives of skin
 - ii) non-communicable diseases
 - iii) Viral diseases
 - iv) Disinfectant
 - v) fat soluble vitamins

Q.5 a) Study the diagram and answer the questions. 5



- i) Label the parts 2, 3, 6 and 7.
- ii) Name the pigment present in cells of part '6'.
- iii) State the functions of part '4' and '7'.

b) Describe the changes that take place during inspiration. 2

c) State functions of Red Cross. 2

d) Define passive immunity 1

a) Fill in the blanks. 5

- | | | |
|----------|---------|-----------|
| 1) ----- | Renin | 2) ----- |
| 3) ----- | Maltase | 4) ----- |
| 5) ----- | Pepsin | 6) ----- |
| 7) ----- | Amylase | 8) ----- |
| 9) ----- | HCl | 10) ----- |

b) Why does a person feels breathlessness at higher altitudes? 1

c) How is the respiratory passage kept free of dust particles? 1

d) Explain the structure of Hair. 3

Q.7 a) Draw a well labelled diagram of two root teeth. 4

b) What is roughage? State its importance to the human body. 2

c) Name the various salivary glands present in human body. 2

~~d) Explain two methods to control mosquitoes. 2~~

Q.8 a) Name four categories of vaccines along with the example of each. 4

b) Write a short note on electrostatic precipitators. 2

c) State two characteristics of antibodies. 2

d) Differentiate between Krebs cycle and glycolysis. 2

[Continuous Assessment - 20 Marks]
