

LITTLE FLOWER SCHOOL, RAPTI NAGAR, GORAKHPUR
FIRST SEMESTER EXAMINATION 2020-2021

Class: VIII
Biology

Time: 2 Hours
Max Marks: 100

I. Fill in the blanks:

[10×1=10]

- 1) Active transport involves the use of _____.
- 2) _____ helps in the transport of water and minerals in plant.
- 3) Water is pulled up in the trees by _____ pull.
- 4) The primary source of light on the earth is the _____.
- 5) In an ecosystem, the energy is lost in form of _____.
- 6) _____ are animals that eat only plants.
- 7) Primary consumers are eaten by _____.
- 8) Increased activity of _____ glands lead to acne and pimples on the faces of adolescents.
- 9) Chemical coordination is brought about by _____ secreted by _____ glands.

II. State whether the following statements are True or False:

[10×1=10]

- 1) Exocrine glands are ductless glands.
- 2) Growth becomes slow during puberty.
- 3) Hormones are secreted in small amounts.
- 4) Plants and animals are interdependent.
- 5) Predators always kill their prey before eating.
- 6) Everything that surrounds us is called ecosystem.
- 7) The most abundant natural resource on the earth is land..
- 8) Water enters the root hair by osmosis.
- 9) Iron is essential for chlorophyll formation.
- 10) Phloem consists of tracheids and vessels.

III. Choose the correct option from the brackets:

[10×1=10]

- 1) Transpiration takes place mainly through :
a) Leaves b) roots c) stem d) flowers
- 2) Which of these is a macronutrient:
a) iron b) boron c) Nitrogen d) zinc
- 3) Which of these is transported using energy ?
a) water b) minerals c) food d) All of them
- 4) The rate of transpiration is dependent on ?
a) wind b) humidity c) sunshine d) all three
- 5) Which of the following can absorb solar energy?:
a) grass b) mango tree c) rose plant d) all three
- 6) Which of the following is not an abiotic component ?
a) Air b) water c) soil d) plants

- 7) Plants depend on animals for :
a) Minerals b) carbon dioxide c) shelter d) water
- 8) Nutrients are brought back to the soil with the help of?
a) Producers b) consumers c) decomposers d) carnivores
- 9) Chemical coordination is brought about by ?
a) Nerves b) hormones c) neurons d) enzymes
- 10) Endocrine gland present in throat region :
a) Testes b) adrenal c) thyroid d) pituitary

IV. Match the following:

[10×1=10]

- | | |
|-----------------------------|----------------------|
| 1) Transpiration | Hawk |
| 2) Transportation of food | Leguminous plants |
| 3) Absorption of water | Exocrine gland |
| 4) Symbiosis | Endocrine gland |
| 5) Primary consumers | Phloem |
| 6) Tertiary consumer | Osmosis |
| 7) Pituitary gland | Cooling effect |
| 8) Sweat gland | Rabbit |
| 9) Inverted pyramid | Xylem |
| 10) Transportation of water | Parasitic food chain |

V. Name the following:

[5×1=5]

- 1) Nucleated cells present next to sieve elements.
- 2) The loss of water in the form of water vapour through the stomata of leaves.
- 3) Organisms that feed upon the dead remains of plants and minerals.
- 4) Living things that can manufacture their own food.
- 5) The period of adolescence during which the reproductive system of boys and girls mature.

VI. Identify the error(s) in the given statements:

[5×1=5]

- 1) Phloem transports water and minerals.
- 2) In xylem, water moves in downward direction.
- 3) Winter is absent in temperate forests.
- 4) An aquarium is a natural ecosystem.
- 5) Adolescence starts from the age of 13 and lasts upto 21 years of age.

VII. Give reasons for: (any 2)

[2×3=6]

- 1) Transpiration is lower on a humid day.
- 2) Green plants are called producers .
- 3) Problem of acne and pimples arise in adolescence.

VIII. Explain the following (Any three): **[3×2=6]**

- 1) Osmosis
- 2) Ascent of sap
- 3) Ecosystem
- 4) Food web
- 5) Chemical coordination
- 6) Puberty

IX. Differentiate between the following (any two): **[2×2=4]**

- 1) Exocrine glands and endocrine glands
- 2) Food chain and food web
- 3) Xylem and Phloem

X. Answer the following in short (any 4) :- **[3×4=12]**

- 1) What is the role of vascular tissue ?
- 2) Why do root hair need to be replaced daily ?
- 3) Define symbiosis.
- 4) What is predation?
- 5) What is a hormone ?

IX. Answer the following in detail (Any four):- **[4×4=16]**

- 1) Discuss the role of transpiration in ascent of sap.
- 2) What are essential elements? How are they classified?
- 3) Describe interdependence of organisms.
- 4) What are abiotic components? Explain the importance of any two abiotic components.
- 5) Draw an outline of human body and show the location of various glands.-

XII. Draw the diagram of: (any one) **[1×6=6]**

1. Absorption and movement of water in root cells.
2. Endocrine glands in human body.