

Part-II : Biological Science

(English Version)

Time : 1 Hour 30 Mins.]

PART A & B

[Maximum Marks : 40

Instructions :

1. Read the question paper carefully and understand.
2. Answer the questions under Part-A in the answer sheet provided.
3. Part-A contains **three** Sections : Section-I, II and III.
4. Part-B answers should be written in the given brackets and attach to the Part-A answer sheet.
5. Write the answers by following the instructions given in each section.

PART – A

Time : 1 Hour 15 Mins.]

[Maximum Marks : 30

Section – I

3 × 2 = 6

- Note :** (i) This section contains 3 very short answer questions.
(ii) Answer **all** the questions.
(iii) Write the answer in 3-4 sentences.
(iv) Each question carries 2 marks.

1. Write any two chemicals required in experiment to prove carbon dioxide and heat is produced in anaerobic respiration.
2. Suggest any two methods to conserve the natural resources in your daily life.
3. What happens if cell division does not take place in the organisms ?

Section – II

3 × 4 = 12

- Note :** (i) This section contains 3 short answer questions.
(ii) Answer **all** the questions.
(iii) Write the answer in 5 to 6 sentences.
(iv) Each question carries 4 marks.

4. What are the different types of teeth in human / write their number and functions.



Observe the following table and answer the given questions :

Type of Respiration	Respiratory organs	Examples
Branchial Respiration	Gills	Fishes
Cutaneous Respiration	Skin	Earthworm, Frog
Pulmonary Respiration	Lungs	Humans, Frog
Tracheal Respiration	Trachea	Cockroach, Grasshopper

- (i) What are the respiratory organs in insects ?
- (ii) What is the respiration in aquatic organisms called ?
- (iii) What type of respiration is seen in mammals ?
- (iv) What types of respiration occurs in frogs ?

6. Write any four biological principles followed in daily life to control the harmful effects of pesticides. <https://www.telanganaboard.com>

Section – III

2 × 6 = 12

Note : (i) This section contains 3 Essay type questions.

(ii) Answer to any two questions.

(iii) Write the answers in 8-10 sentences.

(iv) Each question carries 6 marks.

7. Describe the internal structure of human heart.

8. Explain the procedure and results of an experiment to prove Carbon dioxide is essential for photosynthesis.

9. Draw a labelled diagram of internal structure of human kidney and explain.