

Telangana SSC Public Examination–2026

**Biological Science Model Paper
(English Medium)**

Time: 1 Hr. 30 Min.

Max.Marks: 40

Instructions:

- i) Read the Question Paper carefully and understand.**
- ii) Answer the questions under Part-A in the answer sheet provided.**
- iii) Part-A contains three Sections I, II and III.**
- iv) Part-B answers should be written in the given bracket and attach to the Part-A answer sheet.**
- v) Write the answers following the instructions given in each section.**

Time: 1 Hr. 15 Min.

PART - A

Marks: 30

SECTION - I

Instructions:

- 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. $3 \times 2 = 6$**
1. Write the materials for the experiment to prove that, sunlight is necessary for Photosynthesis?
 2. What will happen, if sensory neurons do not work in human beings?
 3. Write some measures that how do you prevent constipation and malnutrition related diseases in your daily life?

SECTION - II

Instructions:

- i) This Section contains 3 short answer questions.**
 - ii) Answer ALL questions.**
 - iii) Write the answer in 5-6 sentences.**
 - iv) Each question carries 4 marks. $3 \times 4 = 12$**
4. Write the differences between aerobic and anaerobic respiration with suitable examples.

5. Observe the following table and write answers.

Gland	Hormone	Uses
Thyroid gland	Thyroxin	General growth rate and metabolic activity
Ovary	Progesterone Estrogen	Development of uterus, implantation. Development of mammary glands controls menstrual cycle, growth of uterus and skeleton of the pelvis.
Testes	Testosterone	Development of secondary sexual characters in males.
Adrenal gland	Adrenalin	Increase in heart beat rate, rise in blood sugar, dialation of coronary artery and pupil of the eye.
Pancreas	Insulin Glucagon	Decrease glucose percentage in blood. Increase glucose percentage in blood.

- i) Name the sex hormone which is secreted in females?
- ii) Which hormone plays an important role in the development of secondary sexual characters in males?
- iii) Which gland is responsible for increase in heart beat rate, rise in blood sugar?
- iv) Which hormone is secreted by thyroid gland? What is its effect?

6. Suggest some measures to prevent kidney related diseases and in your daily life.

SECTION - III

Instructions: i) This Section contains 3 essay type of questions.

ii) Answer ANY TWO questions.

iii) Write the answer in 8-10 sentences.

iv) Each question carries 6 marks.

2 × 6 = 12

7. Write about the following with examples.

- i) Single and Double circulation ii) Blood Coagulation iii) Blood Pressure

8. Write the procedure and precautions for the experiment to prove carbon di oxide is released in anaerobic respiration of plants.

9. Draw the labelled diagram of the excretory system present in human beings.