

BOARD OF SECONDARY EDUCATION (TELANGANA)
SUMMATIVE ASSESSMENT – II
TENTH CLASS BIOLOGICAL SCIENCE MODEL PAPER
PAPER – II (ENGLISH VERSION)

Time: 2 hours 45 minutes

PART A & B

Max. Marks: 40

INSTRUCTIONS:

- i) In the time duration of 2 hours 45 minutes, 15 minutes of time is allotted to read and understand the question paper.
- ii) Answer the questions under PART – A on a separate answer book.
- iii) Write the answers to the questions under PART – B on the question paper itself and attach it to the answer book of PART – A.

Time: 2 hrs.

PART – A

Marks: 35

INSTRUCTIONS:

- i) PART – A comprises of three Sections I, II and III.
- ii) All the questions are compulsory.
- iii) There is no overall choice. However there is Internal Choice to the questions under Section – III.

SECTION – I

Note: i) Answer ALL the questions.

ii) Each question carries ONE mark.

iii) Write answers in 1 – 2 sentences for each question.

$7 \times 1 = 7$

1. Name the three end products of photosynthesis.
2. What happens if diaphragm is not there in the body?
3. When the fetus is growing inside the uterus it needs nutrients. What provides these nutrients?
4. What will happen if cellsap of root hair cells contain high concentration of ions?
5. What is the full name of ICRISAT?
6. What is parthenogenesis?

7.



Describe the names of the diagram.

SECTION – II

Note: i) Answer ALL the questions.

ii) Each question carries TWO marks.

iii) Answer the questions in 4 – 5 sentences.

$6 \times 2 = 12$

8. What do pyramids and food chain indicate in an eco system?
9. When you visit a doctor, what type of questions ask him about pancreas?
10. What is root pressure? How it is useful to the plant?

11. What are the gum yielding trees in your surroundings? What procedure you should follow to collect gum from trees?
12. What would be the consequences if there is no meiosis in organisms that reproduce sexually?
13. "Rajesh feels hungry upon seeing food. Sheela says no to food as she is not hungry". What makes Rajesh hungry and what suppresses Sheela's hunger?

SECTION – III

Note: i) Answer ALL the questions.

ii) Each question carries FOUR marks.

iii) There is Internal Choice for each question. Only one option from each question is to be attempted.

iv) Answer each question in 8 – 10 sentences.

4 × 4 = 16

14. How is the small intestine design to absorb digested food? Explain.

(OR)

Draw a checker board, show the law of Independent assortment with a flow chart and explain the reaction.

15. What is malnutrition? Explain some nutrition deficiency diseases?

(OR)

Write differences between

a) Light reaction – Dark reaction

b) Chlorophyll – Chloroplast

16. How would you demonstrate that Green Plants release Oxygen when exposed to light?

(OR)

What procedure do you follow to understand anaerobic respiration in your school laboratory?

17. Collect the information about uses of different kinds of alkaloids, take help of Library or Internet.

(OR)

Read the following table and answer the questions given below.

S.No.	Name of the Gland	Location	Hormone secreted	Response of the body to hormone
1.	Pituitary	Floor of brain	Soma to trophin	Growth of bone
			Gonado trophin	Activity of Overy & Testis
2.	Thyroid	Neck	Thyroxin	General growth Rate and Metabolic activity.
3.	Ovary	Lower Abdomen	Estrogen	Growth of Uterus and Skelton of the Peluis.
4.	Testis	Scrotal Sac	Teststeron	Growth of Male Secondary Sexual Characters.

- i) Write the importance of glands and hormones.
- ii) Which hormone is responsible for the growth of bone?
- iii) What happens if testosterone is not secreted?
- iv) Which glands are common in Male and Female?

8. Match the following. ()
- | | | | |
|------------------------|------------|--|------------|
| 1. Charles Darwin | () | a) Law of Independent Assortment | |
| 2. Gean Baptis Laumark | () | b) Law of Segregation | |
| 3. Greger Johan Mendar | () | c) Inheritance of acquired characters. | |
| A) a, b, c | B) c, b, a | C) b, c, a | D) b, a, c |
9. According to Charles Elton ... ()
- A) Carnivores at the top of the pyramid
B) Energy tapping is high at the top of the Pyramid.
C) No Producers at the top of the Pyramid
D) A and C
10. Amber Colour to urine due to ()
- A) Urochrome B) Bile rubine C) bilevardine D) Chlorides

PART - B

ANSWERS

1-B; 2-A; 3-B; 4-A; 5-B; 6-C; 7-B; 8-B; 9-D; 10-A.

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