

**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 × 1 = 7

1. Why does the rate of breathing increases while walking uphill at a normal pace in the mountains? Give two reasons.
2. Is there any permanent solution for kidney failure person?

3.  Identify the diagram, and describe its function.

4. What is synapse?
5. Which blood vessel carries blood for oxidation?
6. What is the role of acid in stomach?
7. Rearrange the food chain given below.

Rabbit → Grass → Eagle → Snake.

SECTION – II

Note: i) Answer ALL the questions.

ii) Each question carries TWO marks.

iii) Answer the questions in 4 – 5 sentences.

6 × 2 = 12

8. Distinguish between.
- Stimulus and Response.
  - Afferent and efferent nerves.
9. What will happen if cell sap of root hair cells contain high concentration of Ions?
10. If there were no Green plants, all life on the earth would come to an end. Comment.
11. The mere smell or sight of food stimulates hunger. Describe the process through a neat diagram.
12. List of the things that makes you amazing in excretory system of human being?
13. Deepak said that "Nephrons are functional and structural units of kindneys". How will you support him?

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. Explain the way how plants get water by Osmosis through root hair?

(OR)

Give an example and explain how plants may Immediately respond to a stimulus?

15. How scientists prove that the food is transported through the phloem?

(OR)

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

16. With the help of chemical equation explain in the process of photosynthesis in detail with the help of flow chart.

(OR)

Prepare a flow chart to explain the process of sexual reproduction in plants.

17. Collect information about carbonating method. Write the discussion with your Physical Science teacher and between you.

(OR)

What type of information do you require to explain Pyramid of biomass?

**INSTRUCTIONS:**

- i) Answer ALL the questions.
- ii) Each question carries  $\frac{1}{2}$  mark.
- iii) Answers are to be written in question paper only.
- iv) Marks will not be awarded in any case of overwriting, rewriting or erased answers.
- v) Write the CAPITAL LETTER (A, B, C, D) showing the correct answer for the following questions in the brackets provided against them.  $10 \times \frac{1}{2} = 5$

1. The digestive juice with out enzyme is ( )  
 A) Bile                                      B) Gastric juice                                      C) Pancreatic juice                                      D) Saliva
2. Cluster of airsacs in lungs are called. ( )  
 A) alveolus                                      B) bronchi                                      C) branchioles                                      D) air spaces
3. An aphid pierces its proboscis into the ..... to get plant juices. ( )  
 A) Xylem                                      B) phloem                                      C) cambium                                      D) vascular bundle
4. The excretory Organ in Cockroach ( )  
 A) Malphigian tubules                                      B) Rapids                                      C) Ureters                                      D) Nephridia
5. Which is wrong pair in the given below ( )  
 A) Pitutory gland – Thyroxine                                      B) Overy – Oeistraidal  
 C) Testis – Testosterone                                      D) Adrenal – Adrinalin
6. The term that we use to describe a sperm cell fusing with an egg cell is ..... ( )  
 A) Fragmentation                                      B) Fermentation                                      C) Fertilisation                                      D) Fusion
7. Match the following ( )  
 1. Incisors ( )                                      a) Grinding  
 2. Canines ( )                                      b) Chewing  
 3. Molars ( )                                      c) Cutting  
 4. Premolars ( )                                      d) Shreding  
 A) 1–c, 2–a, 3–b, 4–d                                      B) 1–a, 2–b, 3–c, 4–d  
 C) 1–c, 2–d, 3–b, 4–a                                      D) 1–d, 2–b, 3–c, 4–a
8. According to mendal alleles have the following of a character. ( )  
 A) Pair of Ganes                                      B) Responsible for charector  
 C) Production of Gametes                                      D) Recessive factors
9. The concept of ecological pyramid was first introduced by..... ( )  
 A) Lineman                                      B) Slobodkin                                      C) Charles Elton.                                      D) Steele
10. Which chemical is caused to minimeta disease? ( )  
 A) Ethyle alchohole                                      B) Mythyle mercury                                      C) Sulphuric acid                                      D) All the above

**PART - B ANSWERS**

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

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