

PRACTICE PAPER - II

SCIENCE - BIOLOGICAL SCIENCE - PAPER-II

జిల్లా 1st
శ్రీ ప్రతిభ

Time : 2.00 Hrs]

[Max.Marks : 50

INSTRUCTIONS :-

1. Question paper consists of 4 sections and 17 questions.
2. Internal choice is there only for Q.No 12 in section-III and for all the questions in section-IV
3. In the duration of 2 Hours, 15 Minints of time is allotted to read the question paper.
4. All answers should be written in the answer booklet only.
5. Answers should be written neatly and legibly.

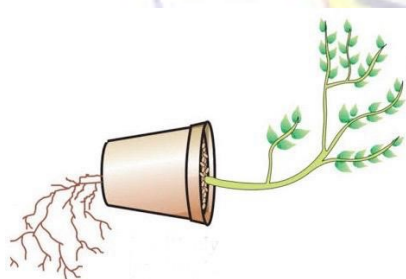
SECTION - I

Note : 1) Answer all the Questions

6x1=6 Marks

2) Each Questions carries 1 Mark.

1. What is the energy currency of the cell?
2. Write any two slogans for Propaganda against female foeticide?
3. Expand CFC.
4. On which plant Mendel conducted his experiments.
5. What are the trophic movements shown in the figure?



6. Rearrange the following food chain in the correct order.

Zooplankton → Phytoplankton's → Man → Fish

SECTION - II

Note : 1) Answer all the Questions

4x2=8 Marks

2) Each Questions carries 2 Marks.

7. Suggest some precautions to your elders to prevent the ill effects of high blood pressure in our body.
8. What questions do you ask a nephrologist to know more about kidney related diseases?
9. a) Draw a food chain comprising the following organisms
Snake, Mongoose, Caterpillar, Leaf, Chameleon
b) Name the organism that is present in the fourth trophic level.
10. "Autotrophs are the first level of food chain". Give reasons.

SECTION - III**Note : 1) Answer all the Questions****జిల్లా 1st**
5x4=20 Marks**2) Each Questions carries 4 Marks.**

11. Write the differences between the blood vessels that bring blood to the heart and carry the blood away from the heart.
12. Draw a neat labelled diagram of the Human Excretory System.

(Or)

Draw a neat labelled diagram of Male reproductive system.

13. Distinguish between bio-degradable and non -biodegradable substances. List two effects each of them on our environment. List two changes in habitat the people must adapt to dispose non biodegradable wastes for Saving the environment.
14. What are variations? Why are variations important for a species.
15. From the given table of plant hormones. answer the following

HORMONES	USES
Abscisic acid	Closing of stomata, seed dormancy
Auxins	Cell elongation and differentiation of shoot and roots.
Cytokinin's	Promotes cell division, promotion of sprouting of lateral buds, delay in aging in leaves, opening of stomata
Ethylene	Ripening of Fruits
Gibberellins	Germination of seeds and sprouting of buds, elongation of stem, stimulation of flowering, development of fruit, breaking the dormancy in seeds and buds.

- a) What are the hormones that effect seed dormancy?
- b) What are the hormones that help in opening and closing of stomata?
- c) Which hormones help in differentiation of shoots and roots?
- d) What is the function of ethylene?

SECTION - IV**Note : 1) Answer all the Questions****2x8=16 Marks****2) Each Questions carries 8 Marks.**

16. Experimentally prove that carbon dioxide is necessary for photosynthesis?

(Or)

Design an experiment to demonstrate hydrotropism?

17. Describe the functions of the following parts of female reproductive system.

Ovaries, Oviduct, Uterus, Placenta.**(Or)**

"It is a matter of chance whether a couple will give birth to a male child or a female child" - Justify this statement with the help of a flow chart showing the fusion of chromosomes.