

First full portion examination-2023

(Model Test -1)

CLASS: XI
MARKS: 35

SUBJECT: BIO-BOTANY
TIMING: 90 MINUTES

SECTION-1

Note: Answer all the questions

8x1= 8

Choose the appropriate answer from the given four alternative and write the option code and the corresponding answer.

1. Find out the odd one

- a. Reproduction. b. Growth. c. respiration. d. fragmentation

2. Prof. Birbal Sahni described _____ plants from _____ hill?

- a. Medicinal & aravalli b. Aromatic plant & Himalaya. C. Fossil & rajmahal. d. Medicinal & rajmahal.

3. Systematics = _____?

- a. Identification + naming + classification.
b. Identification + naming + evolutionary relation.
c. Identification + naming + classification + evolutionary relationship
d. Identification + classification phylogeny

4. In primary structure of protein, which bond is present _____

- a. Disulphide bond. b. Peptide bond. c. Ionic bond. d. All of these

5. Which enzyme is common in all carbon fixation pathways?

- a. PEP carboxylase. b. RubisCO. c. kinase. d. All of these.

6. The germination of rosaceous plants, we need to treat moist condition under lower temperature for month to week is called _____

- a. Vernalization. b. Scarification. c. Stratification. d. All of these.

7. Spindle fibers are composed of _____

- a. Lipid. b. Protein. c. pectins. d. Fibers

8. To measure microscopic objects which of the following instruments use _____

- a. Microscope b. light microscope. c. Micrometry. d. None of the above.

SECTION-2

Note: Answer any four questions. Question no.10 is compulsory

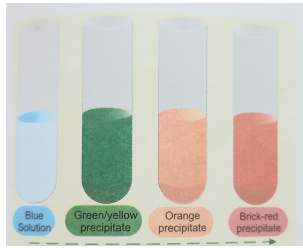
4x2=8

9. Briefly classify the lichen based on the morphology of thallus.

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10. Write any 3 botanical names of ornamental plants in the liliaceae family.
11. Identify the test & write any 2 points about it.



12. What is programmed cell death.
13. List out the non-photosynthetic parts of a plant that need a supply of sucrose?
14. The nitrogen is present in the atmosphere in huge amount but higher plants fail to utilize it. Why?

SECTION-3

Note: answer any three questions. Question no.18 is compulsory

3x3=9

15. differentiate viroids vs viruses
16. Differentiate spike vs spadix.
17. Write 3 physiological effects of cytokinins
18. Write any 3 significance of meiosis?
19. A tree is believed to be releasing oxygen during night time. Do you believe the truthfulness of this statement? Justify your answer by giving reasons.

SECTION-4

Note: 1. Answer all the question

2x5=10

2. Each Question carry 5 marks

3. Draw diagram wherever necessary

20. A) what is senescence? Explain its types?.

OR

B) Draw the schematic diagram of glycolysis.

21. A) Explain photosynthesis process step by step from the absorption of light energy and converting into chemical energy.

OR

B) What are the parameters which control water potential?

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