

21-11-2023

Standard 11

BIOLOGY

Time: 1.30 Hours

Marks: 35

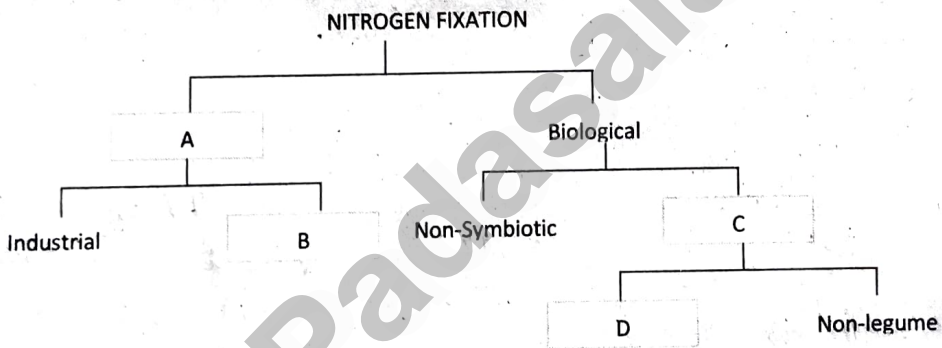
BIO - BOTANY (Mark : 18)

Section - I

I. Choose the correct answer:

3×1=3

- Read the following sentences and identify the correctly matched sentences
 - In Exarch condition, the protoxylem lies outside of metaxylem.
 - In endarch condition, the protoxylem lies outside of metaxylem.
 - In centarch condition, metaxylem lies I the middle of the protoxylem
 - In mesarch condition, protoxylem lies in the middle of the metaxylem
 - i and ii only
 - ii and iii only
 - i and iii only
 - iii and iv only
- Usually, the monocotyledons do not increase their girth, because
 - They possess actively dividing cambium
 - They do not possess actively dividing cambium
 - Ceases activity of cambium
 - All are correct
- Find out the A, B, C and D from the following



- A - Non biological, B - Lightning, C- Symbiotic, D- Legume
- A - Lightning, B - Non biological, C - Symbiotic - D - Legume
- A - Legume, B - Non biological, C - Symbiotic, D - Lightning
- A - Symbiotic, B - Non biological, C - Legume, D - Lightning

Section - II

II. Answer any two questions from the following:

2×2=4

- What are the parameters which control water potential?
- What are the minerals deficient and cause Whiptail disease and Little leaf disease?
- What are Brachy sclerids?

Section - III

III. Answer any two questions from the following:

2×3=6

- Micronutrients, macro nutrients and Unclassified minerals - Compare
- Differentiate - Heart wood and Sap wood
- Differentiate - Passive transport and Active transport.

Section - IV

IV. Answer all the questions:

1×5=5

- 10) Explain the experiment to prove osmosis

(OR)

Differentiate between the cross section of Dicot and Monocot stem.

BIO - ZOOLOGY (Mark : 18)

Section - I

Answer the Questions.

3×1=3

- 1) The Pigment present in the Muscle fibre to store oxygen is
 - a) Myoglobin
 - b) Troponin
 - c) Myosin
 - d) Actin
- 2) Which part of the human Brain is concerned with the regulation of Body Temperature
 - a) Cerebellum
 - b) Cerebrum
 - c) Medulla oblongata
 - d) Hypothalamus
- 3) Which of the following hormone is not secreted under the Influence of pituitary gland
 - a) Thyroxine
 - b) Insulin
 - c) Oestrogen
 - d) Glucocorticoids

Section - II

Answer any two of the following Questions.

2×2=4

- 4) Which is the only Jointless Bone in human Body?
- 5) Sam's optometrist tells him that his intraocular pressure is high. What is the condition called and which fluid does it involve?
- 6) Write any two functions of oxytocin?

Section - III

Answer any two of the following. Q.No. 9 is compulsory.

2×3=6

- 7) Differentiate thick and thin filaments.
- 8) List out the function of Brain Lobes.
- 9) Pineal gland is an endocrine gland - Write its role.

Section - IV

Answer the following Questions.

1×5=5

- 10) a) What are the different types of ribbones that form the rib cage

(OR)

- b) Differentiate rod cells and cone cells.
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