

Answer five questions, selecting at least one from each Group, in which Q.No. 1 is compulsory.

1. Each of the following multiple-type questions has four options of which only one is correct. Indicate your answer by writing the correct option :

- (a) Who introduced binomial nomenclature ?
(i) Bentham and Hooker (ii) Hutchinson
(iii) Linnaeus (iv) Darwin
- (b) The category of family is between :
(i) Order and Genus (ii) Class and Kingdom
(iii) Genus and Species (iv) Genus and Class
- (c) Cereals are obtained from the members of :
(i) Fabaceae (ii) Euphorbiaceae (iii) Polygnaceae (iv) Poaceae
- (d) Sunken stomata occur in :
(i) Hydrophytes (ii) Xerophytes (iii) Hygrophytes (iv) Mesophytes
- (e) Which of the following is triploid in angiosperms ?
(i) Zygote (ii) Egg (iii) Synergid (iv) Endosperm
- (f) Syngamy means fusion of one of the female gametes with :
(i) Secondary nucleus (ii) Egg (iii) Synergid (iv) Antipodal cell
- (g) The site of light reaction is :
(i) Grana (ii) Stroma (iii) Cytoplasm (iv) ER
- (h) Plasmolysis is caused due to :
(i) Absorption (ii) Exosmosis (iii) Endosmosis (iv) Inhibition
- (i) Anomalous secondary growth occurs in :
(i) Sunflower (ii) Maize (iii) Dracaena (iv) Gram
- (j) Ecology deals with the relationship between :
(i) Members of a Family (ii) Man and Environment
(iii) Organisms and Environment (iv) Soil and Water

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Group-A

2. Give an account of system of classification of flowering plants proposed by Bentham and Hooker. Also discuss its merits and demerits.
3. Describe the diagnostic features and economic importance of any one of the following families : (a) Fabaceae (b) Acanthaceae
4. Give the salient features of any two of the following :
(a) Flower of Ranunculaceae (b) Important Characters of Polygonaceae (c) Cyathium Inflorescence (d) Local flora of Mithila Region

Group-B

5. Give an account of anatomical peculiarities of hydrophytes.
6. Give an account of development of a typical dicot embryo.
7. Write notes on any two of the following :
(a) Anomalous secondary growth in Dracaena stem (b) Nature of endosperm (c) Development of a typical embryo sac (d) Tracheary element

Group-C

8. Give an account of nomenclature, properties and classification of enzymes.
9. Describe Calvin cycle with Enzymes involved in it.
10. What do you mean by ecosystem ? Describe any ecosystem studied by you.
Or, Give an account of sources and pollutants of air pollution. Suggest methods to control it.