

Botany (Hons.) Paper - I

Answer five questions, selecting at least one from Group-A, B and C. Q.No. 1 is compulsory.

1. Write, in short, about the following :
 - (a) Symbiotic algae
 - (b) Water bloom
 - (c) Heteroecious fungi
 - (d) T.M.V.
 - (e) Para-sexuality

Group-A

2. Describe the life-cycle of Oedogonium.
3. Give an account of range of thallus structure in algae.
4. Write short notes on any three of the following :
 - (a) Conjugation in Spirogyra
 - (b) Sex organs of Chara
 - (c) Heterocyst and its role
 - (d) Sporangia of Fucus

Group-B

5. Describe life cycle of Cystopus.
6. Give an account of life-cycle of any Viral disease you have studied.
7. Write short notes on any two of the following :
 - (a) Koch's postulates
 - (b) Disease cycle
 - (c) Various types of spores of Puccinia.

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8. Describe ultrastructure of Bacterial cell.
9. Discuss genetic recombination in Bacteria.
10. Point out the roles of bacteria in industries.