

## Botany (Sub./Gen.)

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

1. Write, in brief, about five of the following : LNMUonline.com  
(a) Nostoc (b) TMV (c) Rhynia (d) Cotton (e) Plastid (f) Linkage (g) Rhizoid (h) Summer spore

### Group-A

2. Describe the different stages of Life cycle of puccinia graministritici on wheat plant.
3. Draw a well labelled diagram of Bacterial cell as seen under Electron Microscope. (No description is required)
4. Give a detailed account of sporophyte of Anthoceros.
5. Describe the stem anatomy of Lycopodium with labelled diagram.
6. Describe, in brief, the Life history of Batrachospermum.

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### Group-B

7. Describe the double helical structure of DNA.
8. Write an essay on Mendelism.
9. What is Meiosis ? Describe the various stages of Meiosis I.
10. Draw a well labelled diagram of plant cell as seen under Electron Microscope. (No description required).
11. Give Botanical Names, families and Economic uses of any five of the following :  
(a) Wheat (b) Mustard (c) Sugar cane (d) Cinchona (e) Potato (f) Gram