

**B.Sc. Part III (Hons.) Examination - 2020**  
**Subject: Botany**  
**Paper: VII**

**Time: 2 Hrs**

**F.M. – 50**

**1. Answer any Ten from the following:**

**5 x 10 = 50**

- a. Define the lytic cycle with diagram.
- b. Describe the process of endospore formation in Gram Positive Bacteria.
- c. Draw and precisely describe the structure of Orthotropous ovule.
- d. Briefly describe the successive stages of Xerosere.
- e. Mention the different types of plasmids found in bacteria.
- f. Describe the concept of energy flow through different trophic level of ecosystem.
- g. Summarise the characteristic features of Hydrophytes.
- h. Describe briefly the contrivances of cross pollination.
- i. Mention different adulterants of *Adhatoda vasika* and *Rauwolfia serpentina*
- j. Describe the morphological nature and major uses of the products of Sal and Cotton.
- k. Briefly comment on the processing of black tea
- l. Describe the active principles and parts used of *Cinchona*.