

**ER-1461**

**M. Sc. (First Semester) Examination,  
Nov.-Dec. 2019**

**BOTANY**

***Paper : First***

**(Biology and Diversity of Viruses, Bacteria and Fungi)**

***Time Allowed : Three hours***

***Maximum Marks : 40***

***Note : Attempt questions of all two sections as directed.  
Distribution of marks is given with sections.***

**Section-'A'**

**(Short Answer Type Questions)      5×3=15**

**| 2 |**

**1. How viruses are economically important? Write.**

**Or**

**Draw a labelled diagram of a typical virus.**

**2. Give salient features of archaeobacteria.**

**Or**

**Mention economic importance of cyanobacteria.**

**3. Write short notes on :**

**(any one)**

**(a) Rickettsiae**

**(b) Chlamydiae**

**4. Draw an ultrastructure labelled diagram of a fungal cell.**

**Or**

**What do you know about heterothallism?**

**5. Give medicinal importance of fungi with examples.**

**Or**

**What is mycorrhiza? Write a short note..**

**Section-'B'****(Long Answer Type Questions) 5×5=25**

*Note : Attempt all the five questions. Each question carries 5 marks.*

6. Describe the characteristics and ultra structure of viruses in detail. <https://www.ujjainstudy.com>

**Or**

Discuss the process of replication in viruses.

7. Write an account of reproduction in cyanobacteria.

**Or**

How Eubacteria are classified on the basis of their nutritional requirements.

8. Write down the characteristics of Actinomyces with life cycle of any one member of this group.

**Or**

Give details of salient features, reproduction and life cycle of mycoplasma.

9. Give nutritional classification of fungi with example.

**Or**

Explain the mode of reproduction in fungi.

10. Write an essay on fungi as biocontrol agents.

**Or**

Describe general features of Deuteromycetes with significance of members of this group.

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