

This question paper contains 3 printed pages]

**R—67—2017**

**FACULTY OF SCIENCE**

**B.Sc. (First Year) (First Semester) EXAMINATION**

**MARCH/APRIL, 2017**

**(CBCS/CGPA)**

**BOTANY**

**Paper I (CCB-I)**

**(Diversity of Microbes)**

**(MCQ+Theory)**

**(Saturday, 1-4-2017)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

*(ii) All questions carry equal marks.*

*(iii) Use separate answer-sheet for MCQ (OMR sheet) and descriptive questions.*

*(iv) Time allowed to MCQ and to descriptive questions is 2.00 hours.*

*(v) Draw well labelled diagrams wherever necessary.*

**(MCQs)**

1. Choose the correct answer of the following questions : 10

(i) Virology is the study of :

(a) Algae

(b) Bacteria

(c) Fungi

(d) Viruses

(ii) All viruses are entirely :

(a) Parasitic

(b) Symbiotic

(c) Saprophytic

(d) Epiphytic

(iii) The virus which kills the bacteria is called as :

(a) Plant virus

(b) Animal virus

(c) Bacteriophage

(d) None of these

P.T.O.

- (iv) Conjugation was first discovered by :
- |               |                         |
|---------------|-------------------------|
| (a) Koch      | (b) Tatum               |
| (c) Lederberg | (d) Lederberg and Tatum |
- (v) Nostoc is :
- |                   |                   |
|-------------------|-------------------|
| (a) Myxobacteria  | (b) Archebacteria |
| (c) Cyanobacteria | (d) Bacillus      |
- (vi) Eurotium belongs to class :
- |                    |                    |
|--------------------|--------------------|
| (a) Oomycetes      | (b) Ascomycetes    |
| (c) Basidiomycetes | (d) Deuteromycetes |
- (vii) Fungi growing on dead and decaying organic matter are called :
- |                 |                |
|-----------------|----------------|
| (a) Saprophytic | (b) Parasitic  |
| (c) Epiphytic   | (d) Endophytic |
- (viii) Peculiar dual organism is :
- |              |           |
|--------------|-----------|
| (a) Bacteria | (b) Fungi |
| (c) Lichen   | (d) Virus |
- (ix) Rusts caused by :
- |                |              |
|----------------|--------------|
| (a) Alternaria | (b) Eurotium |
| (c) Puccinia   | (d) Bacteria |
- (x) Lichen is the association of :
- |                        |                        |
|------------------------|------------------------|
| (a) Algae and Bacteria | (b) Fungi and Bacteria |
| (c) Algae and Fungi    | (d) Virus and Bacteria |

**(Theory)**

2. Describe the ultrastructure of bacteria cell.

10

Or

Describe in brief :

- (a) Yellow vein mosaic of Bhindi.  
 (b) Classification of viruses based on host.

3. Describe the structure of mycelium and asexual reproduction of *Albugo*. 10

*Or*

Describe in brief :

- (a) Role of Fungi in industries
- (b) Asexual reproduction in *Eurotium*.

4. Describe the structure of mycelium and reproduction of *Alternaria*. 10

*Or*

Describe in brief :

- (a) Economic importance of Lichen
- (b) Pycnidial stage of puccinia.