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**BF—65—2016**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2016**

**(Old Course)**

**BOTANY**

**Paper I**

**(Diversity of Microbes)**

**(MCQ + Theory)**

**(Wednesday, 19-10-2016)**

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

*Time—2 Hours*

*Maximum Marks—10+30=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 allotted to MCQ and to descriptive questions is 2.00 hours.*

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

**MCQ**

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

(1) Viruses are ..... organisms.

(a) Unicellular (b) Acellular

(c) Multicellular (d) Macroscopic

(2) TMV is also known as .....

(a) Tobacco mosaic virus

(b) Tomato mosaic virus

(c) Turmeric mosaic virus

(d) None of the above

P.T.O.

- (3) The animal viruses contain ..... .  
(a) Only DNA (b) Only RNA  
(c) Either DNA or RNA (d) None of these
- (4) Nostoc belongs to ..... .  
(a) Bacteria (b) Cyanobacteria  
(c) Archaeobacteria (d) None of these
- (5) Mode of nutrition in bacteria is ..... .  
(a) Saprophytic (b) Chemosynthetic  
(c) Parasitic (d) All of these
- (6) Multinucleated vesicle is present in ..... .  
(a) Eurotium (b) Albugo  
(c) Alternaria (d) All of these
- (7) Classification of fungi is described by ..... .  
(a) Mims (b) R.S. Singh  
(c) Alexopolous and Mims (d) None of these
- (8) Puccinia is known as ..... .  
(a) Heteroecious Fungus (b) Polymorphic Fungus  
(c) Heterocyclic Fungus (d) Both (a) and (b)
- (9) Mycobiont of Lichen thallus belongs to ..... .  
(a) Algae (b) Bacteria  
(c) Fungi (d) None of these
- (10) Disease symptoms produced by alternaria are ..... .  
(a) Watery leaf spots (b) Necrotic leaf spots  
(c) Canker spots (d) All of these

### Theory

2. Describe ultrastructure of Tobacco Mosaic Virus.

10

*Or*

Describe in brief :

- (a) Bean mosaic disease  
(b) Role of bacteria in Agriculture.

3. Give general characters of bacteria. Add a note on binary fission. 10

*Or*

Describe in brief :

(a) Asexual reproduction in Eurotium

(b) General characters of Lichens.

4. Describe occurrence, structure of mycelium and reproduction in Alternaria. 10

*Or*

Describe in brief :

(a) Systematic position and structure of mycelium of Albugo

(b) Cleistothecium.