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**V—64—2017**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2017**

**(CBCS/CGPA Pattern)**

**BOTANY**

**Paper I**

**(Diversity of Microbes)**

**(MCQ + Theory)**

**(Saturday, 11-11-2017)**

**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.*

**MCQ**

**10**

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

(1) The viruses are also called as .....

(A) Mysterious particles (B) Protein particles

(C) Dust particles (D) Crystal particles

(2) Little leaf of Brinjal is caused by .....

(A) Viruses (B) Mycoplasma

(C) Bacteria (D) Fungi

P.T.O.

- (3) Capsomeres are collectively called as ..... .  
(A) Capsid (B) Protein  
(C) RNA (D) All of these
- (4) Cell organelles are absent in ..... .  
(A) Fungi (B) Bacteria  
(C) Algae (D) None of these
- (5) Blue green chlorophyll pigments are present in ..... .  
(A) Bacteria (B) Viruses  
(C) Cyanobacteria (D) Fungi
- (6) White rust is caused by ..... .  
(A) Eurotium (B) Albugo  
(C) Alternaria (D) Puccinia
- (7) Ascospores are produced by ..... .  
(A) Eurotium (B) Albugo  
(C) Puccinia (D) Alternaria
- (8) Basidial stage of puccinia is present on ..... .  
(A) Wheat (B) Barley  
(C) Teleutospore (D) All of these
- (9) Conidia of Alternaria are ..... .  
(A) Beaked (B) Muriform  
(C) Spherical (D) Both (A) and (B)
- (10) Rust disease is caused by ..... .  
(A) Eurotium (B) Alternaria  
(C) Albugo (D) Puccinia

**Theory**

2. Describe classification of viruses based on host. Add a note on their transmission. 10

*Or*

Describe in brief :

- (a) Little leaf of Brinjal  
(b) Mode of nutrition in Bacteria.

3. Describe ultrastructure of bacterial cell. 10

*Or*

Describe in brief :

- (a) Asexual reproduction in Albugo  
(b) Role of fungi in medicine and food.

4. Describe the stages produced by puccinia on wheat. 10

*Or*

Describe in brief :

- (a) Symptoms of white rust disease  
(b) Fruiting body of Eurotium.