

This question paper contains 3 printed pages]

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.