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B—83—2019

FACULTY OF SCIENCE

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

MARCH/APRIL 2019

(CBCS/CGPA Pattern)

BOTANY

Paper I

(Diversity of Microbes)

(MCQ & Theory)

(Thursday, 28-3-2019)

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 MCQs (OMR sheet) and descriptive questions.
 - (iv) Draw well-labelled diagrams wherever necessary.

MCQ

1. Multiple Choice Questions : 10

- (i) Plant virus contains as nucleic acid.
 - (a) RNA
 - (b) DNA
 - (c) Both (a) and (b)
 - (d) Plasmid
- (ii) Mad cow disease is caused by
 - (a) Bacteria
 - (b) Virus
 - (c) Prions
 - (d) Fungi

P.T.O.

- (iii) Heterocyst is found in
- (a) Cyanobacteria (b) Eubacteria
(c) Archaeobacteria (d) Myxobacteria
- (iv) Which of the following is called as chemoautotrophic bacteria ?
- (a) Sulphur bacteria (b) Nitrifying bacteria
(c) Amminofying bacteria (d) All of these
- (v) Study of fungi is called
- (a) Virology (b) Bacteriology
(c) Phycology (d) Mycology
- (vi) White rust disease is caused by
- (a) Albugo (b) Puccinia
(c) Eurotium (d) Alternaria
- (vii) Fruiting body in Eurotium is called
- (a) Apothecium (b) Perithecium
(c) Cleistothecium (d) Basidium
- (viii) Which of the following is heteroecious fungi ?
- (a) Albugo (b) Alternaria
(c) Eurotium (d) Puccinia
- (ix) Alternaria belongs to class
- (a) Ascomycetes (b) Oomycetes
(c) Deuteromycetes (d) Basidiomycetes
- (x) In Lichen thallus, algal component is called
- (a) Phycobiont (b) Mycobiont
(c) Both (a) and (b) (d) None of these

Theory

2. Describe the ultra-structure of bacterial cell. 10

Or

Describe in brief :

- (a) Yellow vein mosaic of bhendi 5
 (b) Modes of transmission of viruses. 5

3. Describe the structure of mycelium and asexual reproduction in Eurotium. 10

Or

Describe in brief :

- (a) Binary fission in bacteria. 5
 (b) Role of bacteria in agriculture. 5

4. Describe the structure of mycelium and asexual reproduction in Albugo. 10

Or

Describe in brief :

- (a) Forms of Lichens. 5
 (b) Uredinal stage of puccinia. 5