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W—72—2018

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2018

(CBCS/CGPA Pattern)

BOTANY

Paper I

(Diversity of Microbes)

(MCQ & Theory)

(Wednesday, 17-10-2018)

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) Draw a well labelled diagrams wherever necessary.

MCQ

1. (i) Viruses are :

(a) Saprophytes

(b) Obligate parasites

(c) Symbiotic

(d) Facultative parasites

(ii) Little leaf of brinjal is caused by :

(a) Fungi

(b) Bacteria

(c) Virus

(d) Mycoplasma

(iii) Prions cause disease :

(a) Mad cow

(b) Bean mosaic

(c) Little leaf of brinjal

(d) Ergot

P.T.O.

- (iv) Conjugation was first described by :
- (a) R. Hook (b) Lederberg and Tatum
- (c) Leeuwnhock (d) R. Koch
- (v) Nostoc is :
- (a) Archaeobacteria (b) Myxobacteria
- (c) Cyanobacteria (d) Polybacteria
- (vi) Mycology is the study of :
- (a) Bacteria (b) Fungi
- (c) Algae (d) Viruses
- (vii) Eurotium belongs to class :
- (a) Oomycetes (b) Basidiomycetes
- (c) Deuteromycetes (d) Ascomycetes
- (viii) Fungi growing on dead and decaying organic matter are called :
- (a) Parasitic Fungi (b) Saprophytic Fungi
- (c) Autotrophic Fungi (d) Symbiotic Fungi
- (ix) In Lichen thallus algal partner is called :
- (a) Phycobiont (b) Mycobiont
- (c) Both (a) and (b) (d) None of the above
- (x) is used for production of alcoholic beverage.
- (a) Penicillium (b) Yeast
- (c) Puccinia (d) Alternaria

Theory

2. Describe the structure of TMV and add a note on transmission of viruses.

Or

Write in brief :

- (a) Archaeobacteria
- (b) Bean mosaic

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(3)

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3. Describe the ultrastructure of bacterial cell.

Or

Write in short :

- (a) Cleistothecium
- (b) Uredial stage of puccinia.

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

Or

Describe in brief :

- (a) Economic importance of Lichens
- (b) Structure of Mycelium of *Albugo*.

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