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AO—63—2018

FACULTY OF SCIENCE

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

MARCH/APRIL, 2018

(CBCS/CGPA)

BOTANY

Paper I

(Diversity of Microbes)

(MCQ & Theory)

(Monday, 26-03-2018)

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 MCQs (OMR sheet) and descriptive questions.

(iv) Draw well labelled diagrams wherever necessary.

MCQ

1. Multiple Choice Questions :

(i) Viruses are transmitted through.....

(a) Seeds

(b) Pollen grains

(c) Grafting

(d) All of these

(ii) Bean mosaic disease is caused by.....

(a) Hibiscus virus-I

(b) Phaseolus virus-I

(c) TMV

(d) PMV

(iii) In bacterial cell infolding of cytoplasmic membrane are called.....

(a) Mesosomes

(b) Ribosomes

(c) Polysomes

(d) None of these

P.T.O.

- (iv) In *E. coli*, DNA is.....
- (a) Triangular (b) Circular
(c) Rectangular (d) Straight
- (v) Cyanobacteria reproduce by.....
- (a) Asexual method (b) Sexual method
(c) Both (a) and (b) (d) None of these
- (vi) Most of the fungal cell-wall contain.....
- (a) Cellulose (b) Chitin
(c) Proteins (d) Peptidoglycan
- (vii) Puccinia cause disease to plants commonly called.....
- (a) Smuts (b) Mildews
(c) Galls (d) Rusts
- (viii) Eurotium belongs to class.....
- (a) Ascomycetes (b) Basidiomycetes
(c) Deutromycetes (d) Phycomycetes
- (ix) Mad cow disease is caused by.....
- (a) Virus (b) Bacteria
(c) Prions (d) Fungi
- (x) Litmus is obtained by.....
- (a) Albugo (b) Rocella
(c) Puccina (d) Eurotium

Theory

2. Describe the general characters and classification of viruses based on host.

Or

Describe in brief :

- (a) Binary fission
(b) Mode of nutrition in bacteria

3. Describe the structure of mycelium and sexual reproduction in *Albugo*.

Or

Write in short :

(a) Asexual reproduction in *Eurotium*

(b) Role of fungi in industries

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

Or

Write notes on :

(a) Uredial stage of *Puccinia*

(b) General characters of lichens