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Y—83—2019

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2019

(CBCS/CGPA Pattern)

BOTANY

Paper I

(Diversity of Microbes)

(MCQ & Theory)

(Monday, 18-11-2019)

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) and descriptive questions.

(iv) Draw well labelled diagrams wherever necessary.

MCQ

1. Multiple Choice Questions : 10

(i) Virology is the study of.....

(a) Bacteria

(b) Fungi

(c) Viruses

(d) Algae

(ii) Yellow vein mosaic disease of bhendi is caused by.....

(a) Phaseolus Virus-I

(b) Hibiscus Virus-I

(c) Bacterial Virus

(d) Mycoplasma

(iii)is the most common method of a sexual reproduction in bacteria.

(a) Budding

(b) Binary Fission

(c) Endospore Formation

(d) Conjugation

P.T.O.

- (iv) In *E. coli*, DNA is.....
- | | |
|--------------|-----------------|
| (a) Circular | (b) Triangular |
| (c) Linear | (d) Rectangular |
- (v) Albugo belongs to class.....
- | | |
|--------------------|--------------------|
| (a) Ascomycetes | (b) Oomycetes |
| (c) Deuteromycetes | (d) Basidiomycetes |
- (vi) Most of the fungal cell wall contain.....
- | | |
|-------------|------------|
| (a) Chitin | (b) Pectin |
| (c) Protein | (d) Starch |
- (vii) Arrangement of conidia in Eurotium is.....
- | | |
|----------------|---------------|
| (a) Acropetal | (b) Irregular |
| (c) Peripheral | (d) Basipetal |
- (viii) Rust is caused by.....
- | | |
|--------------|----------------|
| (a) Albugo | (b) Puccinia |
| (c) Eurotium | (d) Alternaria |
- (ix) Which of the following is called imperfect fungi ?
- | | |
|--------------|----------------|
| (a) Albugo | (b) Eurotium |
| (c) Puccinia | (d) Alternaria |
- (x) Lichen is an association of.....
- | | |
|------------------------|------------------------|
| (a) Algae and Bacteria | (b) Algae and Virus |
| (c) Algae and Fungi | (d) Bacteria and Fungi |

Theory

2. Describe the structure of TMV and transmission of viruses. 10

Or

Describe in brief :

- | | |
|---|---|
| (a) Mode of nutrition in bacteria. | 5 |
| (b) Classification of viruses on the basis of host. | 5 |

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

Or

Describe in brief :

(a) Telial stage in Puccinia. 5

(b) Sexual reproduction in Albugo. 5

4. Describe the structure of mycelium and reproduction in Alternaria. 10

Or

Describe in brief :

(a) Role of Fungi in Industries. 5

(b) Economic importance of Lichens. 5