

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS-UG)

Botany

**BOT 3B 03—MICROBIOLOGY, MYCOLOGY, PHYCOLOGY, LICHENOLOGY AND
PLANT PATHOLOGY**

Time : Three Hours

Maximum : 80 Marks

I. Answer *all* questions (1 mark each) :—Answer in a *single word* :

- 1 The fungus *Mucor* comes under the subdivision.
- 2 In which subdivision of fungi sexual reproduction is absent ?
- 3 Which is the causative organism of disease Blast of paddy ?
4. Name a fungus comes under Deuteromycotina.
5. Fruiting body of *Agaricus* is _____.

Fill in the blanks :

- 6 Lichen is a symbiotic association between algae and _____.
- 7 HIV is a _____ virus.
- 8 _____ is a single cell protein.
- 9 Fruiting body of *Peziza* is _____.
- 10 _____ is the causative organism of Citrus canker.

(10 × 1 = 10 marks)

II. Answer *all* questions (short answer) (2 marks each) :

- 11 What are the symptoms of the disease Bunchy top of banana ?
- 12 What are prions ?
- 13 Define rhizosphere.
- 14 What are pathogens ?
- 15 Give notes on fungal toxins.
- 16 What are Viroides ?

Turn over

- 17 What are the biological control measures of plant diseases ?
- 18 Write notes of edible fungi.
- 19 Write notes on foliose lichen.
- 20 What are Bacteriophages ?

(10 × 2 = 20 marks)

III. Answer any *six* questions (short essay) (5 marks each) :

- 21 Give a brief account of Bergey's classification of Bacteria.
- 22 Describe general characteristics of Basidiomycotina.
- 23 Write the scheme of classification of Ainsworth.
- 24 Write the procedure of streak plate method.
- 25 What are the major control measures of plant diseases ?
- 26 What are the symptoms and control measures of Mahali disease of Arecanut.
- 27 Explain the life cycle of Peziza.
- 28 Describe the general characteristics of Deuteromycotina.

(6 × 5 = 30 marks)

IV. Answer any *two* questions (essay) (10 marks each) :

- 29 Write an essay on reproduction and life-cycle of Puccinia.
- 30 Describe the ultrastructure and reproduction in Bacteria.
- 31 Write an essay on economic importance of Lichen

(2 × 10 = 20 marks)