

D 51246

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Core Course

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

Time : Three Hours

Maximum : 80 Marks

Part A

I. Answer *all* questions (1 mark each) :

- 1 Yellowing of leaves in plants due to deficiency of magnesium is called _____.
- 2 _____ is an example for a fruticose lichen.
- 3 The most common method of reproduction in yeast is _____.
- 4 Black rust of wheat is caused by _____.
- 5 _____ is a coprophilous fungus.
- 6 What is a heteroecious fungus ?
- 7 What is a mycobiont ?
- 8 What is the function of Pili ?
- 9 What is citrus canker ?
- 10 What are endospores ?

(10 × 1 = 10 marks)

Part B

II. Answer *all* questions. Short answers (2 marks each) :

- 11 Differentiate viroids and prions.
- 12 Describe the structure of apothecium in *Usnea*.
- 13 Explain chemosynthesis in bacteria.
- 14 Differentiate between chlamydospores and conidia.
- 15 Discuss the symptoms and control measures of Blast of Paddy.
- 16 Why Deuteromycetes are termed "Fungi imperfecti" ?

Turn over

- 17 Lichens acts as indicators of pollution. Justify.
- 18 Describe the structure of bacteriophage with labelled diagram.
- 19 What is necrosis ?
- 20 Comment on "damping off" seedlings ?

(10 × 2 = 20 marks)

Part C

III. Answer any *six* questions. Short essays (5 marks each) :

- 21 Discuss the genetic recombination in bacteria ?
- 22 Write an account on industrial uses of fungi.
- 23 Describe the apothecium of *Peziza* with suitable illustration.
- 24 Which are the major morphological groups of lichens? Give the distinguishing characters of each ?
- 25 Explain the role of microbes in the production of milk products.
- 26 Write an account disease cycle and control measures of Quick wilt of pepper.
- 27 Add a brief account on Single Cell proteins citing examples.
- 28 Brief an account on different types of fruiting bodies in fungi.

(6 × 5 = 30 marks)

Part D

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

- 29 Enumerate the economic importance of bacteria with special emphasis on agricultural, industrial and medicinal applications.
- 30 Explain the structure and formation of various spores of *Puccinia* with suitable diagrams.
- 31 Explain the mechanism of disease resistance in plants?

(2 × 10 = 20 marks)