THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(CUCBCSS–UG)

Core Course—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 Name a poisonous mushroom.

2 Name an asexual spore in Puccinia.

3 Cell wall of fungi is made up of :

4 Algal partner in lichen is called

5 Name the fruiting body of Ascomycotina.

Fill in the blanks **:**

6 Type of nutrition in fungi is _____

7 Infectious RNA with no protein coat is called _____

8 Isidia formation in lichen is a _____ type of reproduction.

9 Leafy lichen is known as ____

10 _____ is the causative organism of root wilt of coconut.

(10 x 1 = 10 marks)

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

11 What are prions ?

12 What is phyllosphere ?

13 Write notes on disease damping off.

14 Explain symbiosis with example.

15 What is necrosis ?

16 Name the causative organism of Citrus canker and quick wilt of pepper.

17 What are the symptoms of disease blast of paddy ?

18 Which are the main classes of lichen based on fungal partner ?

19 Write notes on fruticose

20 What are retrovirus ?

(10 x 2 = 20 marks)

Turn over

III. Answer any *six* questions – Short essay (5 marks each)

21 Describe the general characteristics of Deuteromycotina.

22 What are the symptoms and control measures of Mosaic disease of Tapioca ?

23 What are the mechanisms of disease resistance in plants.

24 Write notes on economic importance of lichen.

25 Describe the various type of asexual reproduction in lichen.

26 Give an outline of classification of fungi by Ainsworth and Bisby.

27 What are the industrial applications of microbiology ?

28 Describe the structure and multiplication of viruses.

(6x 5 = 30 mai

IV. Answer any *two* questions – Essay (10 marks each)

29 Give an account of growth, nutrition and reproduction of bacteria.

30 Explain the life-cycle of Puccinia.

31 Write an essay on economic importance of fungi.

(2 x 10 = 20 ma