****St. Joseph’s College (Autonomous), Bangalore-560 027.**

Register Number:

DATE: **16-04-2019**

**M.SC BOTANY –IV SEMESTER**

**End Semester Examination –April 2019**

**BODE-0415 –Microbiology**

**Time: 2 1/2 Hours Max. Marks : 70**

This question paper has one printed page and three parts.

Draw diagrams wherever necessary

**PART A**

**Define/Explain any TEN of the following 10x2=20**

1. Biopesticide

2. Vaccines

3. Flash method

4. Cold sterilisation

5. Haematopoiesis

6. Epitope

7. Bioleaching

8. Hypersensitivity

9. Fungal amylase

10. Lipase

11. Culture media

12. *Neisseria gonorrhoeae*

**PART B**

**Write critical notes on any FIVE of the following: 5x6=30**

13. Bacterial food poisoning

14. Classical pathway of complement activation

15. Production of biofertilizers

16. *Lactobacillus bulgaricus* and its significance

17. Mycotoxins

18. Etiology of *Adeno* virus

19. Steroid transformation in microorganisms

**PART C**

**Give a comprehensive account of any TWO of the following 2x10=20**

20. Industrial production of proteases and its significance

21. Biodegradation of cellulose, pectin and lignin

22. Epidemiological importance of *Mycobacterium tuberculosis*

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