Reg. No……..…..……..……..…… Name……...……..…. **U 121**

BSc DEGREE EXAMINATION - OCTOBER 2015

SEMESTER: 1 - BSc. BOTANY (CORE)

COURSE - U1CRBOT1: METHODOLOGY AND PERSPECTIVES OF SCIENCE AND AN INTRODUCTION TO THE WORLD OF PLANT DIVERSITY

(Supplementary / Improvement)

Time : Three Hours Max. Marks: 60

I. Answer all question. Each question carry 1 mark .

1. What is Primary Data?
2. What is null hypothesis?
3. What is revolution in science?
4. What are the different types of knowledge?
5. What are flagella?
6. What is pasteurization?
7. Define plasmid
8. What is coenocytic condition? (1 x 8 = 8)

II. Answer any 6 questions. Each question carry 2 marks

9. What are the four types of flagella arrangement in bacteria?
10. Differentiate between true science and pseudoscience with examples.
11. What are the types of experimental designs?
12. Explain the steps of Koch's postulates.
13. Give an example of thallus variation found in the members of chlorophyceae with suitable diagram
14. What are the economic importance of Bryophytes?
15. What are the major differences between plant and animal cell? (2 x 6 = 12)

III. Answer any 4 questions. Each question carry 5 marks

17. Why angiosperms are most successful land plants?
18. Define pharmacognosy? Name four medicinal compounds extracted from plants.

PTO

19. Importance and evolutionary trends in Bryophytes
20. Briefly explain the aquatic and terrestrial biodiversity with suitable examples
21. Describe the methods of classification of data
22. Explain the method of sampling (5 x 4 = 20)

IV. Answer any 2 questions. Each question carry 10 marks .

23. What are the interactions in plant world? Explain the plant –microbe interaction with Special reference to bio-fertilizers.
24. Explain with suitable diagram the general characteristics sexual reproduction in fungi.
25. 'Flower is a modified shoot'. Discuss the statement with illustrations and examples
26. Explain the documentation, data presentation and ethics in science. (10 x 2 = 20)

****