

**B.M.S COLLEGE FOR WOMEN  
AUTONOMOUS  
BASAVANAGUDI BENGALURU- 560004  
MODEL QUESTION PAPER**

**B.Sc. BOTANY (UG) I SEMESTER THEORY EXAMINATION**

**CODE: BOT1DSC01**

**TIME: 2Hrs**

**Max.Marks:60**

**Instructions: I. Answer all questions**

**2. Draw diagrams wherever necessary**

**SECTION-A**

**Answer any FIVE of the following**

**5X2=10**

1. Whittaker's kingdom of Classification.
2. Mention any two important Contributions of Dmitri Ivanovsky.
3. What is Natural media?
4. Write Principle of disinfection
5. Define pure culture and axenic cultures.
6. What are Prions?
7. What are Archaeobacteria.
8. Name the causal organism of Grain Smut of Sorghum.

**SECTION-B**

**II. Answer any FOUR of the following**

**4X5=20**

9. Short note on Air borne Micro-organisms with examples.
10. Write five important contributions of Antony Von Leeuwenhoek.
11. Sterilization by dry heat and moist heat.
12. Brief account on Microbial growth and measurement.
13. Microbial Culture Collection Centers and their importance.
14. Reproduction in Bacteria.

**SECTION-C**

**III. Answer any THREE of the following**

**3X10=30**

15. Working principles and Applications of Bright field and Dark field Microscope.
16. Explain Nutritional types of Microbes.
17. Structure and Multiplication of TMV.
18. General characteristics of Bacteria.
19. a) Brief account of Cyanobacteria.  
b) AM Fungi.

**B.M.S DEGREE COLLEGE FOR WOMEN AUTONOMOUS  
BASAVANAGUDI BENGALURU- 560004  
B.Sc. BOTANY (UG) I SEMESTER PRACTICAL EXAMINATION**

**CODE: BOT1PRA01**

**Model Practical Question Paper I  
MICROBIAL DIVERSITY AND TECHNOLOGY**

**Time - 3 hrs**

**Max. marks - 25**

1. Conduct the Experiment 'A' Gram staining of the given sample (Root nodule/ curd) **03 marks**
2. Perform the Experiment 'B' (Haemocytometer/ Micrometry) **03 marks**
3. Identify the given sample 'C' & 'D' with reason **(2X2½)** **05 marks**
4. Comment on the given slides 'E' & 'F' with labelled diagrams and reasons **(2X2½)** **05 marks**
5. Identify and comment on 'G' & 'H' **(2X2)** **04 marks**
6. Record **05 marks**

**Scheme of Valuation**

1. **A-** (root nodule/ curd sample)

Preparation & Identification=2 marks, Procedure=1 mark,

**Total = 3 marks**

2. **B-** Haemocytometer

Preparation=1½ marks, calculation=1½ marks,

**Total = 3 marks**

3. **C & D-** Specimens (Fungi)

Identification & Classification=1½ marks, Reasons =1 mark **(2X2½)**

**Total = 5 marks**

4. **E & F-** Fungal Slides

Identification = 1 mark, Diagram & Reasons= 1½ mark **(2X2½)**

**Total = 5 marks**

5. **G & H-** Mushroom Cultivation/instruments/Diseases/colony characteristics/Scientists Photos

Identification =1 mark, Reasons=1 **(2X2)**

**Total = 4 marks**

6. Record- **05 marks**

**Total = 5 marks**