

# V.P. & R.P.T.P. SCIENCE COLLEGE, V.V.NAGAR

B.Sc. EXAMINATION SEMESTER IV CODE:US05CBOT03

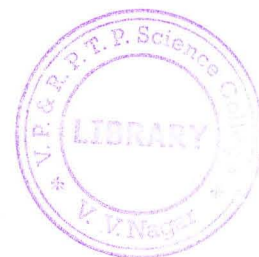
SUBJECT : MICROBIOLOGY, MICROTÉCHNIQUE AND FORESTRY

DATE: 03/10/2018 WEDNESDAY TIME : 10.00 TO 12.00 Total marks : 50

## Q. 1 Multiple Choice questions.

08

- 1 Bacteria were first discovered by .....  
(a) N.D. Zinder (b) A.V. Leuwenhoek (c) Robert Koch (d) Robert Hooke
- 2 The organism capable of destroying bacterial colonies is  
(a) Virion (b) Viroid (c) Virus (d) Prion
3. Which one of the following is a mounting medium ?  
(a) Saffranine (b) Eosin (c) Methyleneblue (d) Glycerin
4. Which one of the following is not a "standard preservative" in botanical microtechnique ?  
(a) Carnoy's fluid (b) Formalin acetoalcohol (c) Congo red  
(d) Chromic acid
5. Gum is obtained from:  
(a) Calamus (b) Acacia (c) Bamboo (d) Cymbopogon
6. Fibres of commerce are obtained from family :  
(a) Solanaceae (b) Rutaceae (c) Myrtaceae (d) Sterculiaceae
- 7 Katha is obtained from :  
(a) Acacia cordifolia (b) Acacia nilotica (c) Acacia catechu (d) Acacia tora
- 8 The most suitable common host of lac insect is :  
(a) *Acacia tora* (b) *Rubia sp.* (c) *Melia azadirach* (d) *Schelicera leaca*



## Q. 2 Answer in short (Any five).

10

- 1 What are the gram positive bacteria?
- 2 Explain: Viruses is a particle.
- 3 Define : stain.
4. What is embedding?
5. Define: Sapwood and Heartwood.
- 6 Write the common source and uses of Dyes?
- 7 Write the uses of Resin.
- 8 Write the uses of Lac.

- Q. 3 Describe the structure of bacterial cell with suitable diagram. 08
- OR**
- Q. 3 (A) Describe the general structure of Virus 05  
(B) Discuss: economic important of Actinomycetes. 03
- Q. 4 (A) Maceration of tissue. 05  
(B) Discuss: Natural dyes. 03
- OR**
- Q. 4 (A) What are fixatives? State any one fixative used in fixation. 05  
(B) Discuss: dehydration. 03
- Q. 5 (A) What are wood preservatives? Discuss oil based wood preservatives. 05  
(B) Write the uses of wood. 03
- OR**
- Q. 5 (A) Discuss: wood seasoning. 05  
(B) Discuss: Palmrosa oil. 03
- Q. 6 **Write notes on:**
- (A) Write the process of manufacture of Plywood. 05  
(B) What is composite wood and improved wood? 03
- OR**
- Q. 6 Discuss: the process of paper making and uses. 08



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