

M.Sc. - I (Microbiology) (CBCS Pattern) Semester - I
PSMBT-104 - Paper-IV : Commercial Microbiology

P. Pages : 1

Time : Three Hours



GUG/S/23/11174

Max. Marks : 80

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1. a) Microbiological exploration of petroleum deposits. **8**
b) Evidence regarding biogenesis of petroleum. **8**
- OR**
- Describe in detail microbial solubilization of coal. **16**
2. Production of hyaluronic acid and Kojic acid and their use in cosmetic preparations. **16**
- OR**
- a) Write a short note in space microbiology in context to ESA STONE experiment. **8**
b) Biological potential of samples returned from planetary satellites and small solar system bodies. **8**
3. Describe paper microbiology with suitable examples. **16**
- OR**
- a) Antimicrobial fabric. **8**
b) Antimicrobial colorant. **8**
4. Describe rubber microbiology in details. **16**
- OR**
- a) Antimicrobial and antiseptic plastics. **8**
b) Methods for producing antimicrobial plastics. **8**
5. Write a note.
- a) Indicators of petroleum biodegradation. **4**
b) Skin whitening compositions. **4**
c) Antimicrobial currency. **4**
d) Casein plastic. **4**
