

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

P. Pages : 1

Time : Three Hours



GUG/W/24/11174

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw diagram wherever necessary.

1. Discuss the geothermal methods of ore and petroleum exploration. **16**

OR

- a) Describe the bacteriological method of oil recovery. **8**
b) Describe the microbial solubilization of coal. **8**

2. Describe the microbial production of Kojic acid and its use in cosmetic preparation. **16**

OR

- a) Write note monitoring of astronauts microbial flora. **8**
b) Write a note on ESA STONE experiment. **8**

3. Define textile microbiology. Discuss bacteriostatic sanitary napkins and towels. **16**

OR

- a) Write note on Antimicrobial colorants. **8**
b) Write a note on Antibacterial and Antibiotic paper. **8**

4. What is antimicrobial plastic. Describe in detail production of antiseptic plastic. **16**

OR

- a) Write a note antimicrobial rubber. **8**
b) Write a note on casein plastic. **8**

5. Write a note on:

- a) Evidence regarding biogenesis of petroleum. **4**
b) Microbial production of alpha arbutin. **4**
c) Antimicrobial carpets. **4**
d) Antiseptics plastics. **4**
