

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

P. Pages : 1

Time : Three Hours



GUG/W/22/11174

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw diagrams 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**
