

M.Sc.- I (Microbiology) (NEP Pattern) Semester-I
NEP-73 / 01MSCMB03 - Paper-III : Commercial Microbiology

P. Pages : 1

Time : Three Hours



GUG/W/23/15127

Max. Marks : 80

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

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

OR

Describe the followings:

- a) Bacteriological method of oil recovery. **8**
b) Microbial solubilization of coal. **8**

2. Explain microbial production of Kojic acid and hyaluronic acid. **16**

OR

- a) Monitoring of Astronauts microbial flora. **8**
b) ESA STONE experiment. **8**

3. Describe in detail antimicrobial fabrics and antimicrobial garment. **16**

OR

- a) Describe antimicrobial papers. **8**
b) Describe antimicrobial currency. **8**

4. Describe in detail microbiology of rubber. **16**

OR

Write notes on:

- a) Production of plastic materials from microorganisms. **8**
b) Production of fungistatic plastic. **8**

5. Describe the following.

- a) Biogenesis of petroleum. **4**
b) Skin Whitening Composition. **4**
c) Antimicrobial carpets. **4**
d) Antiseptic plastic. **4**
