

M.Sc.(Chemistry) (NEP Pattern) Semester-I
NEP-14-5 / 01MSCCH08 - Pharmaceutical and Cosmetic Chemistry

P. Pages : 2

Time : Three Hours



GUG/W/23/15076

Max. Marks : 80

1. a) Discuss in brief drug discovery, design and development? **8**
- b) Discuss the synthesis of : **8**
- i) Chloramphenicol.
 - ii) Aspirin

OR

- c) Discuss Retrosynthetic Approach. **4**
- d) Write a note on synthesis of antipyretic agents? **4**
- e) Discuss synthesis of Daspone. **4**
- f) Write a note on synthesis of Phenobarbital. **4**
2. a) Discuss aerobic and anerobic fermentation in detail. **8**
- b) Discuss preparation methods of: **8**
- i) Penicillin
 - ii) Ethyl Alcohol.

OR

- c) Discuss synthesis of Cephalosporin. **4**
- d) Write a note on production of streptomycin. **4**
- e) Discuss production of Lysine. **4**
- f) Write a note on of Vitamin C. **4**
3. a) Discuss preparations and give two uses of following. **8**
- i) Nail enamel.
 - ii) Suntan Lotions.
- b) Write a note on preparations of **8**
- i) Hair dye
 - ii) Talcum powder
 - iii) Hair spray

OR

- c) Discuss preparation of various types of creams. 4
 - d) Write a note on artificial flavors. 4
 - e) Explain preparation methods of lipsticks. 4
 - f) Write a note on uses of: 4
 - i) Antiperspirants.
 - ii) Artificial flavors
 - iii) Shampoo
4. a) What are essential oils? Give importance of Eugenol and Muscone with respect to cosmetic industry? 8
- b) Write in detail about: 8
 - i) Sandalwood oil.
 - ii) 2-phenyl ethyl alcohol

OR

- c) Write a note on Geraniol? 4
 - d) Discuss importance of rose oil in cosmetic industry? 4
 - e) Write a note on Jasmone? 4
 - f) Discuss the importance of : 4
 - i) Civetone
 - ii) Eugenol
5. Solve **Any four**.
- a) What is HIV-AIDS related drugs. Give uses. 4
 - b) What are antipyretic agents. 4
 - c) Write a note on Vitamin C. 4
 - d) What are antibiotics. 4
 - e) Give uses of shaving creams. 4
 - f) What is the composition of Face powder. 4
 - g) Give importance of Jasmone. 4
 - h) Write a note on Rose oil. 4
