

10. (a) Write a notes on the following :
- (i) Preservatives and anti oxidants.
  - (ii) Flavouring and sweetening agents.

Or

- (b) (i) Write the causes and control of anaemia. (5)
  - (ii) Coagulants and anti coagulants. (5)
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(For the candidates admitted from 2012-2013 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Fourth Semester

Organic Chemistry

INDUSTRIAL AND MEDICINAL ORGANIC  
CHEMISTRY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write a brief account on product of petroleum from fractional distillation.

Or

- (b) Give the manufacture and uses of styrene.

2. (a) Discuss the composition of PVC and its uses

Or

- (b) Give the synthesis and uses of malachit green.

3. (a) Give the preparation and uses of sulphadiazine.

Or

(b) Explain with suitable examples of Antiseptics and disinfectants.

4. (a) Write the methods of isolation colour reaction and SAR of quinine.

Or

(b) Discuss the causes and control of diabetes.

5. (a) Write a notes on blood group, Rh factor.

Or

(b) Discuss the causes and control of AIDS.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Write a notes on :

(i) Cetane number.

(ii) Lubricant oils.

(iii) Greases and waxes. (3 + 3 + 4)

Or

(b) Give the manufacture and uses of

(i) Acetaldehyde.

(ii) 1,3-Butadiene. (5 + 5)

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7. (a) Write a brief account on binders extender and surface active agents. (3 + 3 + 4)

Or

(b) Give the synthesis and applications of

(i) Congo red

(ii) Rhodamine 'B'. (5 + 5)

8. (a) Give the synthesis, assay and structure and uses of chloramphenicol and tetracyclines.

(5 + 5)

Or

(b) Write a isolation, pharmacological action and uses of morphine, heroin and codeine.

(4 + 3 + 3)

9. (a) Give the chemistry of nitrous oxide, chloroform and cocaine. (4 + 3 + 3)

Or

(b) Give the preparation and uses of thiotepa and cyclophosphamide.

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