

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2018/2019 – SEMESTER II
BACHELOR OF PHARMACY HONOURS
BPU3233- MEDICINAL CHEMISTRY I- LEVEL 5
FINAL EXAMINATION
DURATION: 03 HOURS

06 NOV 2019
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EXAMINATION DIVISION



87

DATE: 06TH NOVEMBER 2019

TIME: 01.30 P.M. – 04.30 P.M.

1.1. Write four (04) biomolecules which can be used as receptors for drugs. (04 marks)

- I).....
II).....
III).....
IV).....

1.2. Briefly explain "Structure- Activity -Relationship". (03 marks)

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1.3. What are bioisosteres? (03 marks)

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02.

2.1. Name four (04) classes of drugs that affects Cholinergic Neurotransmission. (04 marks)

- I).....
II).....
III).....
IV).....

2.2. Draw the general structure of first-generation antihistamines.

(06 marks)

03.

3.1. Write four (04) classes of Antipsychotic Drugs.

(04 marks)

- I).....
- II).....
- III).....
- IV).....

3.2. Draw the synthetic pathway of Barbituric acid using urea, ethyl malonate and sodium ethoxide as reactants.

(06 marks)

04.

4.1. Briefly explain the Structural features of Calcium Channel Blockers.

(06 marks)

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4.2. Draw the general structure of coumarin.

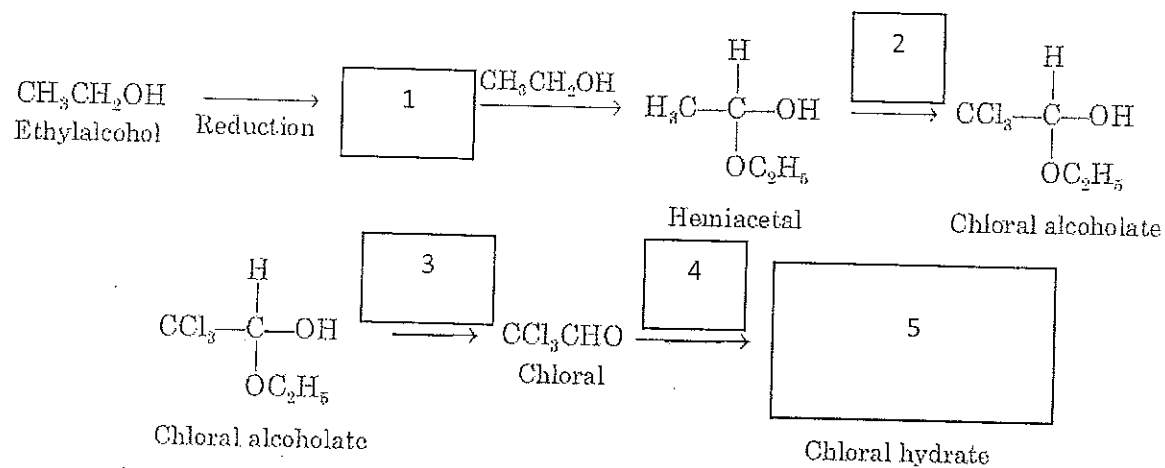
(04 marks)

Part C- (30 marks)

01.

1.1. Explain the Structure Activity Relationship of Barbiturates. (10 marks)

1.2. Complete the following synthetic pathway of Chloral Hydrate. (05 marks)



02.

2.1. Briefly describe the Structure Activity Relationship of Cardiac glycosides. (10 marks)

2.2. State five (05) structural features of calcium channel blockers. (05 marks)

