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L-240-2019

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

MARCH/APRIL, 2019

(CBCS Pattern)

ORGANIC CHEMISTRY

Paper XVIII (CH-534/2A)

(Medicinal Chemistry-I)

(Monday, 29-4-2019)

Time: 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

- N.B. := (i) Attempt All questions.
 - (ii) Figure to the right indicate full marks.
- 1. Solve any *three* of the following:

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- (a) How do antibiotics act for inhibition cell wall synthesis?
- (b) Discuss about rate theory of drug activity.
- (c) Write a note on mechanism of blood clotting.
- (d) Give synthesis and SAR of Isonazid.
- (e) Explain hydrolysis reaction involved in metabolism of drugs.
- 2. Attempt any three of the following:

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(a) Explain suicide enzyme inactivation for design of enzyme inhibitor.

P.T.O.

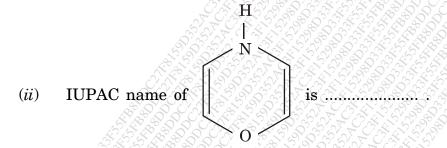
Discuss the uses of molecular modelling.

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5. (A) Select the *correct* alternative from the following:

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- (i) nucleus is present in Ethionamide.
 - (a) Furan
 - (b) Indole
 - (c) Pyridine
 - (d) Quinoline



- (a) 1, 4 oxthiazine
- (b) 1, 4 azoxazine
- (c) 1, 4 thiazine
- (d) 1, 4 oxazine
- (iii) The structure of tetracycline has membered nucleus.
 - (a) 4
 - (b) 3
 - (c) 2
 - (d) 1
- (iv) In drug metabolism, ketones are reduced to
 - (a) Primary alcohol
 - (b) Secondary alcohol
 - (c) Tertiary alcohol
 - (d) Benzyl alcohol

P.T.O.

$$(v) \qquad \begin{array}{c} O & O \\ \hline \\ CH - \\ \hline \\ CH_2COCH_3 \end{array}$$

is the structure of

- (a) Warfarin
- (b) Dicoumarol
- (c) Cephalosporin
- (d) Knellin
- (B) Write short notes on (any two):

10

- (i) Immunological assay
- (ii) Metabolic antagonism
- (iii) Structure activity of coumarin derivatives.

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