

Question Paper

Makeup

Exam Date & Time: 10-Jun-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm - Semester -IV
End Semester Examination, JUNE- 2019

Course Code: PCH-BP401T
Course Title: PHARMACEUTICAL ORGANIC CHEMISTRY-III (THEORY)
Date: 10 June 2019

Pharmaceutical Organic Chemistry-III [PCH-BP401T]

Marks: 75

Duration: 180 mins.

I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

Instructions: Answer ALL questions.

1) Seven membered ring with one nitrogen is called (1)

Azepines

thiazines

diazine

oxapines

2) Quinoxaline is (1)

Benzo pyridine

Benzo pyrimidine

Benzo pyrazine

Benzo pyridazine

3)is more aromatic than pyrrole (1)

pyridine

thiophen

furan

pyrazole

4) Example for diazole (1)

oxazole

thiazole

isoxazole

imidazole

5) Atropisomerism (1)

stereochemistry of bi phenyls

stereochemistry of E1 reactions

stereochemistry of E2 reactions

stereochemistry of SN1

reactions

) Imidazolidine 2,4 dione is also called as

(1)

Barbital

hydantoin

diazepines

azepines

) Metronidazole has.....nuclues

(1)

imidazole

pyridine

quinoxaline

pyrazole

) Cycloserine is used in the treatment of

(1)

malaria

cancer

amoebiasis

tuberculosis

) Isoquinoline upon reduction with Sn/HCl gives

(1)

Decahydroisoquinoline

1,2,3,4-tetrahydroisoquinoline

Isoquinoxaline

Pyridine 3,4-dicarboxylic acid

0) Reserpine is a/anderivative

(1)

imidazole

indole

pyridine

pyrrole

1) Isoquinoline is synthesized by the reaction of hydroxylamine with

(1)

acetaldehyde

formaldehyde

cinnamaldehyde

benzaldehyde

2) Purine is prepared by

(1)

Albert and Brown's
synthesis

Skraup synthesis

Friedlander synthesis

Lipp synthesis

3) Reduction of quinoline using H₂/ Platinum gives

(1)

- 1,2-dihydroquinoline
- isoquinoline
- decahydroquinoline
- 1,2,3,4-tetrahydroquinoline

Benzylidene acetone is prepared by

(1)

- Dakin's reaction
- Claisen-Schmidt reaction
- Birch reduction
- Metal hydride reduction

15)

A meso compound is the one whose molecules are

(1)

- Non superimposable on their mirror images
- optically active
- superimposable on their mirror images
- levorotatory

16)

The carbonyl group of ketones upon reaction with their azines in the presence of a base gets converted togroup

(1)

- methyl
- methylene
- carboxyl
- ester

17)

n-butylphenylketone is converted to n-pentylbenzene by

(1)

- Wolf-Kishner reduction
- Clemmenson reduction
- Oppenauer oxidation
- Birch reduction

18)

Coramine contains nucleus

(1)

- Pyrimidine
- isoquinoline
- acridine
- pyridine

19)

Chloroquine is used in the treatment of

(1)

- amoebic liver abscess
- spasms of ureter
- pneumonia
- cerebral haemorrhage

Acriflavin is a/an

(1)

flavanol

flavanone

topical antiseptic

antibiotic

II Long Answers

Answer all the questions.

- 1) Explain the electrophilic substitution reactions of indole with examples. Give the structure of isoniazid, primaquine, sulphapyridine, acriflavin and caffeine. (10)
- 2) Give the structure and uses of Frusemide and nitrofuraxime. Write one method of synthesis of furan and discuss the electrophilic reactions of furan with an example. (10)

III Short Answers

Answer all the questions.

- 1) Give the structure and uses of chloroquine and papaverine (5)
- 2) What is Birch reduction? Explain (5)
- 3) What are meso compounds? Explain with examples. (5)
- 4) What is racemic modification? Explain the methods of resolution of racemic mixture. (5)
- 5) Discuss stereospecific reactions with an example (5)
- 6) Explain the stereochemistry of biphenyl compounds (5)
- 7) Discuss the aromaticity of furan pyrrole and thiophen (5)

-----End-----