Printed pages: 01 **Sub Code: BOP231**

Paper Id: 150321 **Roll No:** | | | | | | | | | | |

BPHARM

(SEM III) THEORY EXAMINATION 2018-19

Pharmaceutical Chemistry III- (Heterocyclic and Bio-organic Chemistry)

Time: 3 Hours ***Total Marks: 100***

Notes: *Assume any missing data.*

SECTION - A

1. Attempt *all* questions in brief. **2 x 10 = 20**

a) Define Halogination.
b) Why Pyrrole is basic in nature?
c) What is non-reducing sugar?
d) How will you distinguish Glucose and Fructose?
e) Name any four non essential amino acids.
f) What are nucleic acids?
g) What is a Zwitter ion?
h) Write any two tests for the identification of Amino acid.
i) Define Rancity.
j) Define Fatty acids.

SECTION - B

2. Attempt any *three* of the following: **10 x 3 = 30**

a) Compare the Basicity of Pyrrole and Pyrrazole.
b) Write in detail about "Classification of Carbohydrates". Write about the important reactions of D (+) Glucose.
c) Write about structure of Protein.
d) What do you understand by Amino acids? Classify them with suitable examples.
e) Write in detail about Saponification Value.

SECTION - C

3. Attempt any one part of the following: **10 x 1 = 10**

a) Write about preparation, properties and pharmaceutical importance of Furon.
b) Write about preparation, properties and pharmaceutical importance of Theophene.

4. Attempt any one part of the following: **10 x 1 = 10**

a) Write in detail about Howarth representation of Fructose.
b) What do you understand about Mutarotation.

5. Attempt any one part of the following: **10 x 1 = 10**

a) Write in short about dipolar nature of amino acids**.**
b) Write about some important reactions of amino acid.

6. Attempt any one part of the following: **10 x 1 = 10**

c) Define oil and fats. Give some important reactions of them.
d) Write in detail about Genetic code.

7. Attempt any one part of the following: **10 x 1 = 10**

a) What are the Vitamins and classify them?
b) Define Polymer. Write about step growth and chain growth polymerization.

http://www.aktuonline.com