Registration No : | | | | | | | | | | |

Total Number of Pages : 01 **B.Pharm**
BP203T

2nd Semester Regular / Back Examination 2018-19
BIOCHEMISTRY – THEORY
BRANCH : B.Pharma
Time : 3 Hours
Max Marks : 75
Q Code : F353

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C. The figures in the right hand margin indicate marks.

Part- A

Q1 **Objective Answer Type Questions (Answer All)** **(2 x 10)**

a) What is invert Sugar? Name two tests for identification of reducing sugar.
b) What is hartnup disease?
c) What is carnitine? Write down its role in the body.
d) Differentiate between DNA and RNA.
e) What is high energy rich compound? Give two examples.
f) What is hyperbilirubinemia? Mention its causes.
g) Mention the coenzymes required for conversion of pyruvic acid to Acetyl CoA
h) Write the components of ETC and indicate the sites of phosphorylation.
i) Write down the central dogma of molecular genetics.
j) What is rancidity and mention how DALDA is Prepared?

Part- B

Q2 **Focused-Short Answer Type Questions- (Answer Any Seven)** **(5 x 7)**

a) What is Ketosis? Describe Ketogenesis.
b) Describe the Pyrimidine synthesis.
c) Describe oxidation of Palmitic acid with energetic.
d) What is HMP Shunt? Describe the oxidative phase and importance of HMP Shunt.
e) Write down the synthesis of melatonin and mention its significance.
f) Explain how ATP is synthesized in the body. Mention the significance of ATP.
g) Write notes on Transcription.
h) Write down the disorder of lipid metabolism.
i) Define Protein. Classify it and write down the biological role of Protein.

Part-C

Long Answer Type Questions (Answer Any Two)

Q3 What is normal blood urea level? Describe the reactions of urea cycle and mention its disorder. **(10)**

Q4 Define enzyme. Classify with suitable examples. Describe the competitive enzyme inhibition. **(10)**

Q5 Write down the synthesis of Purine nucleotide. **(10)**

Q6 Define Glycolysis. Describe the reactions of E. M. Pathway with energetic. **(10)**