J-161203070104030 0 Seat No. _____

Master of Pharmacy Management (MPM)
(Sem. IV) (CBCS) Examination
June / July - 2019
Pharmaceutical Chemistry - IV
(Biochemistry - I)

Time : **3** Hours] [Total Marks : **80**

Instructions :

1. Figure to the right indicate marks.
2. Answer any three questions from each section, question one and five are compulsory.
3. Draw neat and clean diagram when required.
4. Each section should be written in separate main answer books.

SECTION – 1

1 Answer the following questions : (any **seven**) **2×7=14**

I. Write about lipoproteins.

II. What is SIDS ?

III. Define reducing and non reducing sugars with examples.

IV. Define acid value of fat.

V. Classify enzymes.

VI. Which diagnostic tests indicates liver disease.

VII. Define derived lipids, with examples.

VIII. What are the uses of cholesterol in human body.

IX. Write about metabolism of galactose.

X. What is lactic acidosis ?

2 Answer the following questions :

A. Write a note on polysaccharides. **7**

B. Define and classify fatty acids with suitable examples. **6**

3 Answer the following questions :

A. Define gluconeogenesis. Explain steps involved in it. **7**

B. Discuss HMP shunt pathway with its significance. **6**

4 Answer the following questions :

A. Explain role of TPP and NAD as coenzyme. **7**

B. Explain various diagnostic tools applicable for renal failure. **6**

SECTION – 2

5 Answer any two out of three : **7×2=14**

A. Define and classify carbohydrates. Add a note on monosaccharides.

B. Discuss steps of aerobic glycolysis with energetics.

C. Explain role of PDH complex. Discuss citric acid cycle.

6 Answer the following questions :

A. Discuss β-oxidation of fatty acids with energetics. **7**

B. Explain with examples competitive inhibition of enzymes. **6**

7 Answer the following questions :

A. Discuss biosynthesis of saturated fatty acids. **7**

B. Explain mechanism of action of enzyme. **6**

8 Answer the following questions :

A. Write about input and output of body water. Add a note on its regulation. **7**

B. Explain role of hormones in blood glucose level regulation. **6**
