* R C - 1 3 2 9 - 3 0 / 1 3 0 0 *

RC-1329-30

Second Year B. Pharm. Examination

April / May – 2010

PH-205 : Pharmacology-I

Time : **3** Hours] [Total Marks : **70**

RC-1329

Instructions : (1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **S. Y. B. Pharm.**

Name of the Subject :

☛ **PH-205 : Pharmacology-1**

☛ Subject Code No. : **1 3 2 9** ☛ Section No. (1, 2,.....) : **1**

Seat No. :

Student's Signature

(2) Answer each section in **separate** answer book and tie them **separately**.

1 Attempt any **five** questions : **10**

(a) Describe Carnitine transport system.
(b) Explain the term epimer with example.
(c) Citrate is converted into isocitrate in TCA cycle. Explain.
(d) Give significance of urea cycle.
(e) Define "essential amino acid" and non-essential amino acid"
(f) Give significance of uronic acid pathway.
(g) Write biochemical functions of copper and magnesium.

2 Attempt any **four** questions : **16**

(a) Discuss biochemical importance of fructose and galactose metabolism.
(b) Discuss the factors affecting enzyme activity mentioning as well enzyme inhibition.
(c) Give structure and co-enzymatic functions of riboflavin and pyridoxine.
(d) Write a note on oxidative phosphorylation.
(e) Explain enzyme kinetics with help of Michaelis Menten equation.
(f) Give structure and biochemical functions of niacin and biotin.

3 Attempt any **three** questions : 9

(a) Describe the role of enzyme and isoenzyme in various clinical disorders.

(b) Explain the term nitrogen fixation with example.

(c) Describe the role of enzyme and isoenzyme in various clinical disorders.

(d) Discuss the function of respiratory chain.

(e) Explain etiopathogenesis of peptic ulcer.

RC-1330

Instructions : (1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **S. Y. B. Pharm.**

Name of the Subject :

☛ **PH-205 : Pharmacology-1**

☛ Subject Code No. : **1 3 3 0** ☛ Section No. (1, 2,.....) : **2**

Seat No. :

Student's Signature

(2) Answer each section in **separate** answer book and tie them **separately**.

4 Attempt any 11 questions (any 4 from (a) and any 5 from (d) 11

(a) Define : (any **four**)

(i) Inflammation

(ii) Metaplasia

(iii) Nitrogen balance

(iv) Coenzyme

(v) Peptic ulcer

(vi) Anabolism

(b) Give four examples of competitive inhibition of enzymes.

(c) Name the coenzyme required for the enzyme G6PD.

(d) Give structure : (any **five**)

(i) Nonreducing disaccharide

(ii) Estrogen

(iii) Ascorbic acid

(iv) Ketogenic amino acid

(v) Acidic amino acid

(vi) Nonessential amino acid

(vii) Vitamin B_6.

5 Attempt any **three** questions : **12**

(a) Give a brief account of ketogenesis and the conditions responsible for its prominence.

(b) Discuss the role of cholesterol metabolism in fatty liver and cirrhosis.

(c) How is uric acid synthesized? Write its biochemical importance.

(d) Explain pathogenesis of Congestive heart failure.

(e) Describe formation and breakdown of ketone bodies and give its significance.

6 Attempt any **two** questions : **12**

(a) Define chronic inflammation. Describe the role of mononuclear cells in chronic inflammation.

(b) Draw urea cycle and describe how body manages neurotoxic ammonia.

(c) Define enzyme. Classify enzymes according to IUB system with suitable examples.
