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SB-1155

Second Year B. Pharm. Examination

March / April – 2011

PH-205 : Pharmacology-I

(Biochemistry & Pathophysiology)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशविक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="S. Y. B. Pharm."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="PH-205 : Pharmacology-1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
	<input type="text" value="Student's Signature"/>

- (2) Attempt all questions.
- (3) Answer each section in separate answer book and tie them separately.
- (4) Figure to right indicate marks.

SECTION - I

- 1 Attempt any five questions : 10
 - (1) Enumerate inhibitors of respiratory chain.
 - (2) Explain regulation of gluconeogenesis.
 - (3) Write biochemical functions of iron.
 - (4) Give significance of uronic acid pathway.
 - (5) Explain sulphate reduction.
 - (6) Explain term bioenergetics.
 - (7) Describe carnitine transport system.

- 2 Attempt any four questions : 16
 - (1) Differentiate between competitive and non-competitive enzyme inhibition.
 - (2) Explain the pathophysiology of angina pectoris.
 - (3) Explain the factors affecting the enzyme activity.
 - (4) Write note on oxidative phosphorylation.
 - (5) Discuss biochemical importance of fructose and galactose metabolism.
 - (6) Role of vitamins in citric acid cycle.

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[Contd...

- 3** Attempt any three questions : **9**
- (1) Discuss function of respiratory check.
 - (2) Write note on free radical induced cell injury.
 - (3) Explain etiopathogenesis of peptic ulcer.
 - (4) Describe the role of enzyme and isoenzyme in various disorders.
 - (5) Differentiate essential amino acid and nonessential amino acids.

SECTION - II

- 4** Attempt any eleven questions : **11**
- (a) Define : (any six)
 - (i) Chemotaxis
 - (ii) Metabolism
 - (iii) Anabolism
 - (iv) Healing
 - (v) Atherosclerosis
 - (vi) Gluconeogenesis
 - (vii) Atrophy
 - (viii) Hypertension.
 - (b) Attempt any five :
 - (i) Enlist the function of cholesterol.
 - (ii) Explain CCF.
 - (iii) Give the structure of : Ascorbic acid, Cholesterol.
 - (iv) Name of component of the respiratory chain.
 - (v) Enumerate inflammatory mediators.
 - (vi) Give reversible kinase reaction involved in glycolysis.
- 5** Attempt any three questions : **12**
- (1) Explain the pathophysiology of atherosclerosis.
 - (2) Explain glycogenolysis and its regulation.
 - (3) Explain clinical and diagnostic significance of enzymes.
 - (4) Explain uric acid synthesis and its biochemical importance.
 - (5) Describe pathophysiology of hypertension.
- 6** Attempt any two : **12**
- (1) Draw TCA cycle and its energetic and regulation.
 - (2) Define enzyme. Describe mechanism of action of enzyme activity.
 - (3) Write pathophysiology of rheumatoid arthritis.