

PY-404(N)

B. Pharm. (Fourth Semester)

EXAMINATION, June, 2012

(Grading/Non-Grading)

(New Scheme)

PHARMACEUTICAL CHEMISTRY – V

(Biochemistry)

[PY-404(N)]

Time : Three Hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Discuss about "Active Transport Process" across cell membrane. 6
(b) What are "High energy compounds" found in the biological systems ? 8
2. (a) Give a classification of amino-acids. Discuss the characteristic features present in the secondary structure of proteins. 7
(b) Derive Michaelis-Menton kinetics for one enzyme and one substrate system. 7
3. (a) Discuss the metabolic pathway which results in the generation of glucose from non-carbohydrate carbon substrates. 8
(b) Discuss the role of Vitamins as Coenzymes. 6

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4. (a) Give the pathways for oxidation of fatty acids in the biological system. 8
(b) Discuss about ketone bodies and their role in the Biological system. 6
5. (a) Discuss respiratory chain process and its role in energy capture. 6
(b) Discuss the role of co-enzymes involved in Biological Redox reaction. 6
6. (a) How the atmospheric nitrogen is converted to ammonia in Diazotrophs ? 6
(b) Discuss the pathway of urea cycle. 8
7. (a) What is Diabetes mellitus ? How can it be diagnosed ? 7
(b) Discuss the etiology, symptoms and diagnosis of Phenylketonuria. 7
8. (a) Discuss about "Wobble Hypothesis". 6
(b) Discuss the process of DNA replication. 8

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