

Code: 9R01501

R09

B.Pharm III Year I Semester (R09) Supplementary Examinations June 2017

PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain the mechanism of active and passive transport in the transportation of biomolecules across the cell membrane.
(b) Write a note on prostaglandins and eicosanoids.
- 2 (a) Explain the following terms:
(i) Concept of free energy.
(ii) Laws of thermodynamics.
(b) Give a short note on uronic acid pathway.
- 3 (a) How does ATP synthesize in a biological system and explain its importance?
(b) What is the biological importance of DNA & RNA?
- 4 (a) Explain the metabolic pathway gluconeogenesis.
(b) Give a note on redox potential.
- 5 (a) What are activators & deactivators of an enzyme?
(b) Explain the concept of enzyme action with detailed kinetics and how do various factors influence on its action.
- 6 (a) What are the biological functions of biomolecules?
(b) Give a detailed note on xenobiotic metabolism.
- 7 (a) Explain the catabolism of amino acids.
(b) Explain the metabolic pathway ketogenesis.
- 8 (a) Explain β -oxidation of palmitic acid with energy levels.
(b) Explain the metabolism of tyrosine.
