

Code: 9R01501

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

PHARMACEUTICAL BIOCHEMISTRY

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the role of sodium & potassium pumps in the biochemical organization of the cell.
(b) What are enzymes? Classify them with suitable examples & add a note on enzyme action.
- 2 (a) Explain the terms respiratory chain & oxidative phosphorylation.
(b) What is the biological significance of vitamins and minerals?
- 3 (a) Explain the metabolism of Embden Meyerhof Parnas (EMP) pathway with energetic.
(b) Write a note on redox potential.
- 4 (a) Explain the mechanism or concepts of detoxification.
(b) Write a note on urea cycle & its significance.
- 5 (a) Explain the biosynthesis of cholesterol.
(b) Explain the conjugation reactions.
- 6 (a) Write the metabolism of valine & tryptophan.
(b) Explain the omega oxidation of fatty acids.
- 7 (a) What are the factors affecting enzyme action?
(b) Explain the terms osmoregulation & haemostasis.
- 8 (a) Write the classification of carbohydrates and lipids with structures.
(b) Write a note on HMP shunt.
