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Total Number of Pages:2

**B.PHARM.**  
**PH.4.5**
**4<sup>th</sup> Semester Back Examination 2016-17****BIOCHEMISTRY****BRANCH: Pharmacy****Time: 3 Hours****Max Marks: 70****QUESTION CODE: Z535****Answer Question No.1 which is compulsory and any five from the rest.****The figures in the right hand margin indicate marks.****Q1 Answer the following: (2 x 10)**

- a) Define Km. Write its significance.
- b) Differentiate between DNA and RNA.
- c) What is ketosis? Write down the normal ketone body level.
- d) What is ATP-ADP cycle?
- e) What is translation?
- f) What is Werneke-Karsakoff syndrome?
- g) What are eicosanoids? Give examples.
- h) Define glycogenesis and glycogenolysis.
- i) What is endpoint inhibition? Give one example.
- j) Define free energy. Mention how it is related with redox potential.

**Q2 Describe the reactions of Kreb's cycle. Mention the anaplerotic reaction of Kreb's cycle. (10)****Q3 Explain the biosynthesis of saturated fatty acids. (10)****Q4 Describe the HMP pathway and mention its importance. (10)****Q5 Define enzyme. Classify it with suitable examples. Discuss about competitive enzyme inhibition. (10)**

**Q6 Write notes on: (5+5)**

- a) Urea cycle                      b) Biochemical role of PLP

**Q7 What do you mean by Xenobiotics? Explain in detail Phase-II detoxification reaction. (10)**

**Q8 Write short notes on : (Any two) (5 +5)**

- a) Application of Enzyme  
b) Prostaglandins  
c) Mechanism of transport process  
d) Transcription