Reg. No. _____

Karunya University

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – November / December 2009

Subject Title: BIOCHEMISTRY **Time : 3 hours**
Subject Code: BC201 **Maximum Marks: 100**

Answer ALL questions

PART – A (10 x 1 = 10 MARKS)

1. Pectin is a polymer of _____
2. The repetitive units of terpenes are_____
3. Which is the imino acid?
4. Smaller subunit of prokaryotic ribosome contain _____rRNA
5. Oxidation of fatty acid occurs in _____of the cell.
6. Aspartate transaminated to _____
7. Total number of ATP produced per glucose during anaerobic metabolism is/are _____
8. The urea cycle begins with the coupling of free NH_4^+ with HCO_3^- to form _____
9. State true or false. Membrane proteins are rich in hydrophobic aminoacids.
10. State true or false. Alkaline phosphatase labeled probes is called conjugated nucleic acids.

PART – B (5 x 3 = 15 MARKS)

11. What are epimers?
12. Define hyperchromicity.
13. What are ketone bodies?
14. What are uncouplers?
15. What are glycoproteins?

PART – C (5 x 15 = 75 MARKS)

16. Write notes on oligosaccharides.

(OR)

17. Classify lipids.

18. Write the structure of proteins.

(OR)

19. Write the Watson crick model of DNA structure.

20. Explain the fatty acid biosynthesis.

(OR)

21. Explain steps involved in transamination.

22. Give detailed account on TCA.

(OR)

23. Explain urea cycle.

24. Explain in detail on conjugated nucleic acids.

(OR)

25. Give account on conjugated proteins.