Reg.No : | | | | | | | | | | | |

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1

SEMESTER EXAMINATIONS

APRIL – 2016 **15CPBC2B**

INTERMEDIARY METABOLISM

Time: 3 Hrs **Max. Marks: 75**

SECTION – A (5 X 6 =30)

Answer ALL the questions.

1. a) Write a note on high energy compounds.

(Or)

b) Discuss chemiosmotic hypothesis of Peter Mitchell in the formation of ATP.

2. a) Discuss the synthesis of glucose from non – carbohydrate sources.

(Or)

b) Sketch the pathway of Glycolysis and its regulation.

3. a) Describe the metabolism of tyrosine.

(Or)

b) Give the salient features of transamination.

4. a) Explain the pathway of β – oxidation of Fatty acids.

(Or)

b) Illustrate the biosynthesis of Ceramide.

5. a) Discuss the salvage pathway of purine synthesis.

(Or)

b) Describe the catabolism of pyrimidine nucleotides.

SECTION – B (3 X 15 =45)

Answer any THREE of the following questions.

6. Elaborate the components of ETC.
7. TCA cycle is an amphibolic pathway – Explain.
8. Describe urea cycle. Discuss the clinical significance of blood urea level.
9. Enumerate the ketone bodies. Describe the formation and utilization of ketone bodies in the body.
10. Write the denovo pathway of synthesis of Purine nucleotides.

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