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

SEMESTER EXAMINATIONS

APRIL – 2017

15CPFN2A

BIOCHEMICAL BASIS OF NUTRITION

Time : 3 Hours

Max. Marks : 75

SECTION – A (5 x 6 = 30)

Answer ALL the questions.

1. (a) Discuss respiratory chain and enzymes and co enzymes of oxidation.

(Or)

- (b) Identify the redox pairs and phosphates in biological oxidation.

2. (a) Enumerate the events of TCA cycle.

(Or)

- (b) Write about galactosemia and glycogen storage diseases.

3. (a) Outline the beta - Oxidation of saturated fatty acids.

(Or)

- (b) Classify and highlight the significance of lipoprotein.

4. (a) Summarize the features of transamination.

(Or)

- (b) Describe urea cycle.

5. (a) Write short notes on i) Replication of DNA in Eukaryotes.

- ii) Repair on DNA.

(Or)

- (b) Bring out the chemical changes in gout and aciduria.

SECTION – B (3 x 15 = 45)

Answer any THREE of the following questions.

6. Detail on the mechanism of oxidation phosphorylation.

7. Account on the reactions of glycolysis.

8. Elaborate the bio synthesis of cholesterol.

9. Analyse the pathophysiology and clinical manifestations of phenylketonuria, alkaptanuria and cystinuria.

10. Explain the structure properties and types of RNA.
