

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

SEMESTER EXAMINATIONS

NOVEMBER – 2016

RZO5D

ELECTIVE – I : BIOCHEMISTRY**Time: 3 Hrs****Max. Marks: 75**

SECTION – A (10 X 2 =20)

Answer ALL the questions.

Define / explain the following.

1. Acid.
2. Electrolyte.
3. Entrophy.
4. First law of thermodynamics.
5. Co-enzyme.
6. Hydrolases.
7. Types of Electrophoresis.
8. Streptomycin.
9. Classification of lipids.
10. Rickets.

SECTION – B (5 X 5 =25)

Answer any FIVE of the following questions.

11. What are the properties of water?
12. Define pH and explain how pH can be determined.
13. List the functions of proteins.
14. Write an account on enzyme kinetics.
15. What is an antibiotic? Explain any two antibiotics.
16. Describe the principle and types of centrifuge.
17. Write the sources, functions and deficiency diseases of any five water soluble vitamins.
18. Discuss about various forms of energy and types of chemical reactions in the biological system.

SECTION – C (3 X 10 =30)

Answer ALL the questions.

19. a) Write in detail on ATP bioenergetics and redox coupling.

(Or)

- b) Describe the mechanism of buffer action and its importance.

20. a) Classify carbohydrates and state the biological importance of them.

(Or)

- b) Classify enzymes and explain the factors affecting enzymes activity.

21. a) What is chromatography? Explain about the column and paper chromatography.

(Or)

- b) Describe Henderson – Hasselbalch equation.

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