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**D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**  
**SEMESTER EXAMINATIONS**  
**NOVEMBER - 2017**  
**BIOMOLECULES**

15CPBC1B

**Time : 3 Hrs**

**Max.Marks : 75**

**SECTION-A (5x 6 =30)**

Answer ALL the questions.

1. (a) Explain the structure and functions of glycosaminoglycans.  
(Or)  
(b) Give the structure and biological importance of amino sugars.
2. (a) Write in detail about the structural characteristic of Hemoglobin.  
(Or)  
(b) Explain about the classification of proteins based upon shape and size.
3. (a) Write notes on prostaglandins with example.  
(Or)  
(b) Explain about the structure and functions of important steroids.
4. (a) Explain about the structure of DNA and its properties.  
(Or)  
(b) Comment on the chemical synthesis of oligonucleotides.
5. (a) What are docking proteins? Give their importance.  
(Or)  
(b) Write notes on endocytosis and exocytosis.

**SECTION-B (3x15 =45)**

Answer any THREE of the following questions.

6. Explain in detail about the structure, properties and functions of polysaccharides.
7. Explain the isolation, fractionation and purification of proteins.
8. Give a detailed account on the classification of phospholipids.
9. Write in detail about the chemical and enzymatic methods of sequential analysis.
10. Explain in detail about the transport process across the membranes.

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