Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **18BT2006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BIOCHEMISTRY** | **Max. Marks :** | **100** |

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| **Q. No.** | **Questions** | **Course Outcome** | **Marks** |
| **PART – A (10X1 = 10 MARKS)** | | | |
| 1. | Define monosaccharides. | CO5 | 1 |
| 2. | What are lipids ? | CO1 | 1 |
| 3. | Draw the structure of tyrosine. | CO2 | 1 |
| 4. | Draw the structure of glycine. | CO1 | 1 |
| 5. | Define proteins. | CO2 | 1 |
| 6. | What are amino acids? | CO3 | 1 |
| 7. | Write the structure of lysine . | CO5 | 1 |
| 8. | Give examples for unsaturated fatty acids. | CO1 | 1 |
| 9. | List the disease caused by Vitamin C deficiency | CO3 | 1 |
| 10. | Name the nitrogenous bases of DNA. | CO2 | 1 |

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| **PART – B (6 X 3 = 18 MARKS)** | | | |
| 11. | List the functions of lipids. | CO5 | 3 |
| 12. | What are epimers? | CO1 | 3 |
| 13. | Draw the diagram of alpha helix. | CO2 | 3 |
| 14. | Differentiate between DNA and RNA. | CO3 | 3 |
| 15. | Mention the functions of potassium. | CO6 | 3 |
| 16. | What are nucleic acids? | CO4 | 3 |

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| **PART – C (6 X 12 = 72 MARKS)**  **(Answer any five Questions from Q.no 17 to 23. Q.No 24 is a Compulsory Question)** | | | |
| 17. | How pyruvate is formed during aerobic conditions? Justify with suitable reactions. | CO1 | 12 |
| 18. | Describe the classification of lipids. | CO1 | 12 |
| 19. | How fatty acids are classified? Explain its properties. | CO2 | 12 |
| 20. | Elaborate on the properties of amino acids. | CO5 | 12 |
| 21. | Explain the functions of Vitamin D and Vitamin A respectively. | CO3 | 12 |
| 22. | Give an account on the structure of proteins. | CO4 | 12 |
| 23. | Describe the double helical structure of Deoxyribo nucleic acid with a suitable diagram. | CO5 | 12 |
|  | **Compulsory:** | | |
| 24. | Elaborate on macrominerals and add a note on its deficiency disorders. | CO6 | 12 |