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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

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| **Sub. Code:** | **15BT2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MEDICAL BIOCHEMISTRY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Illustrate the structure of animal cell with neat diagram. | CO1 | 10 |
| b. | Demonstrate the function of any 5 subcellular organs. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Assess the transportation of substances across biological membranes. | CO2 | 10 |
| b. | Define redox potential and oxidative phosphorylation. | CO2 | 10 |
|  |  |  |  |  |
| 3. | a. | Classify the carbohydrates based on their number of molecules. | CO2 | 5 |
|  | b. | Explain abot diabetes mellitus. | CO2 | 5 |
|  | c. | List out the biomedical importances of carbohydrates. | CO3 | 5 |
|  | d. | What is glucose tolerance test? | CO3 | 5 |
| (OR) | | | | |
| 4. |  | Discuss in detail about the fatty acids, cholesterol and their biomedical importance. | CO3 | 20 |
|  |  |  |  |  |
| 5. | a. | Elaborate the general composition of proteins and their biomedical importances. | CO2 | 10 |
|  | b. | Determine the techniques of identification of proteins by chromatography and electrophoresis. | CO3 | 10 |
| (OR) | | | | |
| 6. |  | Classify vitamins based on their solubility and explain about their biomedical importance. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | What is hyper vitaminosis? | CO2 | 5 |
|  | b. | Criticize liver function test with the suitable examples of enzymes. | CO2 | 10 |
|  | c. | What is metabolsime? | CO2 | 5 |
| (OR) | | | | |
| 8. | a. | Distinguuish between renal function tests and urine analysis. | CO3 | 15 |
|  | b. | Explain the gastric function tests. | CO2 | 5 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Demonstrate the process of sub cellular fractionation using the differential centrifugation method. | CO3 | 15 |
|  | b. | List out the uses of isotoes in biochemistry. | CO3 | 5 |

ALL THE BEST