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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| **Code :** | **16BI3002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HEALTH INFORMATICS AND ANALYTICS** | **Max. marks :** | **100** |

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

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| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. |  | Describe in detail the various modules of a HMIS for a specialty hospital. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Explain in detail how Health Informatics evolved. | CO1 | 10 |
| b. | Describe why information technology should be a part of modern medicine. | CO1 | 10 |
| 3. |  | Explain the significance of maintaining medical records, their types and compare a paper based record to an EHR. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Discuss the role of CAPE in the treatment of modern day patients. | CO1 | 20 |
| 5. |  | With suitable examples, describe how Computer Assisted Patient Surgery has an impact on modern surgery. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Describe the types of medical equipment that are part of a hospital. | CO2 | 20 |
| 7. |  | Distinguish between and describe the merits and limitations of endoscopy and VE. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Describe with an example how expert systems have been built to diagnose diseases. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Give an account on Telemedicine unit setup in rural areas and how it works. | CO2 | 20 |

ALL THE BEST