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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **15BI3012** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HEALTH INFORMATICS AND ANALYTICS** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Illustrate different modules in an HMIS and their importance in a hospital. | CO1 | **15** |
| **(OR)** | | | | |
| 2. | a. | Describe how health informatics evolved. | CO1 | **10** |
| b. | Differentiate paper and electronic health records. |  | **5** |
| 3. | a. | Compare and discuss upon conventional and virtual endoscopy procedures. | CO1 | **15** |
| **(OR)** | | | | |
| 4. | a. | Explain how image guided surgery with robotics has gained importance in the present day. | CO1 | **15** |
| 5. | a. | Discuss the need for data security and confidentiality in maintaining health records. | CO1 | **15** |
| **(OR)** | | | | |
| 6. | a. | Define the role of the Internet and technology in CAPE. | CO1 |  |
| 7. | a. | Explain how CT and MRI scans are essential diagnostic instruments in modern medicine. | CO1 | **15** |
| **(OR)** | | | | |
| 8. | a. | Give details on the setup and use of telemedicine in distant rural communities. | CO1 | **15** |
|  | | **Compulsory:** |  |  |
| 9. | a. | Describe atleast 2 different algorithms used to create an expert system for disease diagnosis with examples. | CO1 | **15** |

ALL THE BEST