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

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

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| **Code :** | **14BI2032** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HEALTH CARE INFORMATICS** | **Max. Marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Define medical informatics. Explain the important aspects of medical informatics in health care. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Describe the various technological approaches and features in health care informatics to secure patient data. | CO1 | 20 |
| 3. |  | Elucidate the goals and features of Electronic health record. Compare the pros and cons of electronic health record with paper record. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Explain the applications, benefits, challenges and trends in using telemedicine approach. | CO2 | 20 |
| 5. |  | Describe how surgical simulation is performed giving examples of simulation equipment used in a surgery. | CO3 | 20 |
| (OR) | | | | |
| 6. |  | Write a note on operation Lindbergh. Discuss the benefits and issues faced in remote surgery approach. | CO2 | 20 |
| 7. |  | Define endoscopy. Explain the methodology used to obtain an artificial surface in virtual endoscopy and also discuss its features and limitations. | CO3 | 20 |
| (OR) | | | | |
| 8. |  | Define and expand CAPE. Explain why should doctors employ it in treatment. Mention few online resources for CAPE. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Illustrate the overall architecture of hospital management information system. Explain the steps involved in development of HIS. | CO2 | 20 |