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

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **15EI2024** | **Duration :** | **3hrs** |
| **Sub. Name :** | **HOSPITAL AUTOMATION** | **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. | Explain the processes involved in computer based medical record retrieval. | CO1 | 10 |
| b. | Illustrate the computer applications involved in caring for the critically ill patients. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Explain how the computerized prescription helps the doctor in improving the medical treatment rendered to the patient. | CO1 | 10 |
| b. | Demonstrate the working of CPR system and its advantages. | CO1 | 10 |
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| 3. | a. | Elaborate on the working of Secondary Selective Generator used in healthcare with its advantages and disadvantages. | CO2 | 12 |
| b. | Predict the benefits of hospital video surveillance system. | CO3 | 8 |
| (OR) | | | | |
| 4. | a. | Explain the emergency power testing program and its benefits. | CO2 | 10 |
| b. | Discuss on the benefits of upgrading to a new boiler. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Give an outline on the necessity of power monitoring and also its methodologies. | CO2 | 10 |
| b. | List out the steps involved in battery maintenance. | CO2 | 10 |
| (OR) | | | | |
| 6. | a. | Examine the methods followed for energy saving in a hospital. | CO2 | 12 |
| b. | Compare and contrast circuit monitor and power meter. | CO2 | 8 |
|  |  |  |  |  |
| 7. | a. | Explain the piping system in supplying medical gas. | CO3 | 10 |
| b. | Describe the working operation of a central heating system. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Give an outline on the role of compressor in a hospital and describe its types. | CO2 | 12 |
| b. | Discuss on the air conditioning zones in a hospital. | CO2 | 8 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Explain the classification of fire and the steps to be taken to prevent fire. | CO2 | 12 |
| b. | Discuss on the NFPA fire safety standards. | CO2 | 8 |