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



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

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| **Code :** | **15EI2030** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ICU AND OPERATION THEATRE EQUIPMENT** | **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. | Demonstrate the working of infusion pump with neat sketch. | CO2 | 10 |
| b. | Discuss about care of instruments before and after use in operation theatre. | CO2 | 10 |
| **(OR)** | | | | |
| 2. | a. | Discuss in detail about the sterilization techniques used in hospitals and clinical laboratories. Also give the necessity of standardization and quality management. | CO2 | 10 |
| b. | Demonstrate the working of hemodialysis machine with neat sketch. | CO2 | 10 |
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| 3. | a. | Illustrate the functions of oxygenator with a sketch. | CO2 | 15 |
| b. | Describe the working principle of Heart Lung machine and its application. | CO3 | 5 |
| **(OR)** | | | | |
| 4. | a. | Describe in detail the different types of dialysers. | CO2 | 15 |
| b. | Highlight the need and scope for dialyser in ICU. | CO3 | 5 |
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| 5. | a. | Discuss about the functional aspects of endoscopes in ICU. | CO1 | 10 |
| b. | Briefly explain the working principle of Peristaltic Pump. | CO2 | 10 |
| **(OR)** | | | | |
| 6. | a. | Outline the applications of suction apparatus in hospitals. | CO3 | 15 |
| b. | Explain briefly about the model of incubator machine. | CO3 | 5 |
|  |  |  |  |  |
| 7. | a. | Illustrate the design of operation theatre lighting. | CO3 | 5 |
| b. | Summarize the essential features in operating table design. | CO2 | 15 |
| **(OR)** | | | | |
| 8. | a. | Suggest the merits and challenges of health monitoring in rural areas. | CO3 | 10 |
| b. | Design a model patient monitoring system. Give its merits. | CO1 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Give notes on types of hazards. Reveal few safety measures to eliminate hazards in OT rooms. | CO3 | 10 |
| b. | Evaluate the patient safety method in a hospital. | CO3 | 10 |