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

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

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| **Code :** | **17BM3012** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AMBULATORY SERVICES** | **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. | Discuss in detail about the patient monitoring system in wireless telemetry. | CO1 | 10 |
| b. | Explain in detail about the Computer based Monitoring in Patient Monitoring System. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | With schematic layouts, explain the Data acquisition and signal Processing in Patient Monitoring System. | CO1 | 10 |
| b. | Demonstrate the function of disaster relief squad with an example. | CO2 | 10 |
|  |  |  |  |  |
| 3. | a. | With the aid of a neat sketch explain the construction and operation of Vehicle design. | CO2 | 10 |
| b. | Demonstrate the implementation of basic equipment used in ambulance. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Design the lift mechanism for patient transportation in hospital. | CO2 | 10 |
| b. | Suggest a simple methodology for patient transfer in hospital | CO3 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain the operation of Advanced Life support ambulance and also describe the features in detail. | CO4 | 10 |
| b. | Give an overview in designing a lift in ambulance. | CO4 | 10 |
| (OR) | | | | |
| 6. | a. | With an aid of neat sketch, explain the working principle of pneumatic suspension system. | CO5 | 10 |
| b. | Discuss about any one Medical Device with the battery backup and also list the features. | CO5 | 10 |
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| 7. | a. | With a neat block diagram explain implementation of Mobile X-Ray used in hospital. | CO5 | 10 |
| b. | Discuss in detail about the handling of Medical gases in hospital and give some safety measures during the procedure. | CO5 | 10 |
| (OR) | | | | |
| 8. | a. | Describe the operation of GPS used in ambulance networked services. | CO6 | 10 |
| b. | Describe about the recent advancement in mobile diagnostic equipment. | CO6 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Analyse the smart safety system implemented in hospital. | CO6 | 10 |
| b. | Discuss in detail about the Fire Protection Maintenance in hospital. | CO6 | 10 |