

[LB 0212]

AUGUST 2012

Sub. Code: 1213

**B.Sc. CRITICAL CARE TECHNOLOGY  
SECOND YEAR**

**PAPER III – ICU MONITORING – I**

*Q.P. Code : 801213*

**Time : Three hours**

**Maximum : 100 marks**

**(180 Mins) Answer All questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks  
(Max.)(Max.)(Max.)**

1. What is acute myocardial infarction? Discuss the clinical features and ECG changes in myocardial infarction.  
What are the important steps in immediate treatment? 7 20 10
2. What is ARDS? Describe the clinical features in ARDS.  
Describe the arterial blood gas analysis in a patient with ARDS.  
What is the Chest X-ray finding in ARDS? 7 20 10
3. Outline the general supportive treatment in the management of organophosphorus compound poisoning. What monitoring would you do for such a patient? What are the steps when such a patient becomes hypoxic? 7 20 10

**II. Write Notes on:**

1. How would you recognize airway obstruction? 4 10 5
2. What monitoring is required for transport of head injury patient to CT scan department? 4 10 5
3. What parameters would you monitor in a patient just extubated. 4 10 5
4. What is COPD? How are the vital parameters in patients with COPD? 4 10 5
5. What is acute renal failure? Classify 3 causes of acute renal failure in adult. 4 10 5
6. Write notes on various methods of oxygen therapy. 4 10 5
7. Write notes on importance of monitoring of cuff pressure in ICU. 4 10 5
8. How will you recognize a patient with ongoing bleed in ICU. 4 10 5

**III. Short Answers on:**

1. Draw a normal ECG and label its parts. 2 4 3
2. Enumerate the features of upper airway obstruction. 2 4 3
3. How would you set the alarm limits for heart rate and blood pressure for an adult. 2 4 3
4. How would you analyze blood gas in severe respiratory acidosis. 2 4 3

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| 5. Write 3 important causes low blood pressure in an adult.      | 2 | 4 | 3 |
| 6. What are the important tests to measure coagulation?          | 2 | 4 | 3 |
| 7. What parameters are measured in a patient with liver failure? | 2 | 4 | 3 |
| 8. What are the various types of pulse?                          | 2 | 4 | 3 |
| 9. Write the grades of dyspnoea.                                 | 2 | 4 | 3 |
| 10. Draw a laryngeal mask airway and label its parts.            | 2 | 4 | 3 |

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