

QP Code:101119

Reg.No.:.....

PG Degree Examinations in Emergency Medicine (MD) - June 2015

Paper I – Applied Basic Sciences, General Emergency Medicine and Disaster Preparedness

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays: (20)

1. A 45 years old female came to emergency department with high grade fever, severe breathlessness past 5 days. Her BP was 90/60mmHg, HR-135/min, RR-48/min, SPO2-46% in room air, SPO2 improved to 70% with NRBM and 90% with BiPAP ventilation. Patient restless, non-cooperative. Chest radiograph reveals bilateral patchy infiltrates. Bedside echocardiography reveals normal cardiac status. Answer the following.
 - New BERLIN criteria for ARDS
 - Barotrauma and volutrauma
 - Permissive hypercapnia
 - Functional residual capacity and its influence
 - Indications and contraindications of non invasive ventilation (3+3+5+5+4)

Short essays: (8x10=80)

2. Blood supply to heart
3. FAST & EFAST
4. Pharmacology of drugs used in cardiac arrest
5. Methaemoglobinemia
6. Torsades De Pointes
7. Hyperkalemia
8. Liver function test and its importance
9. Any three resistant microorganisms in your intensive care unit and add a note on newer antibiotics
