

**D.M. – CRITICAL CARE MEDICINE**

**Paper IV – RECENT ADVANCES IN CRITICAL CARE MEDICINE  
INCLUDING MONITORING, INSTRUMENTATION AND IMAGING**

*Q.P. Code: 161484*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss whether Sepsis 3 guidelines are relevant in India and how it will impact critical care delivery in India?
2. Describe how you would execute the wishes of a patient who has an advanced directive (Living will) and is now admitted into the ICU.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Describe the evidence base for extracorporeal gas exchange in the ICU.
2. Describe the rationale for the use of beta blockers in shock.
3. Discuss a rational approach to manage antibiotic resistance.
4. Discuss utility of molecular diagnostics in infections in ICU patients.
5. Describe current evidence for use of steroids in shock.
6. Describe evidence in support of recruitment maneuver's in ICU.
7. Discuss rationale for the use of albumin in surgical patients.
8. Describe situations where CT scan would be superior to MRI in ICU patients.
9. Discuss the role of continuous monitoring of blood sugar in ICU.
10. Discuss the evidence base of trans esophageal echocardiography in ICU patients.

\*\*\*\*\*