

**D.M. – CRITICAL CARE MEDICINE**

**Paper I – APPLIED BASIC MEDICAL SCIENCES, ETHICS,  
COMMUNICATION / COUNSELLING**

*Q.P. Code: 161481*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the principles and practices of post ICU care, follow-up and assessment and evidence based recommendations for the same.
2. Describe the conduct, relevant issues and practical limitations of conducting an institution sponsored randomized controlled trial in an India ICU.

**II. Write notes on:**

**(10 x 7 = 70)**

1. What are the tools available for monitoring the central nervous system in an ICU setting?
2. What are the limitations of anatomical based approaches of vascular cannulation?
3. Draw and describe the normal arterial waveform and the changes which can be seen with the development of haemorrhagic shock in a young adult.
4. Describe pathophysiological diagnosis which can be made by utilizing the alveolar gas equation at the bedside.
5. Describe the effect of PEEP on work of breathing in normal and diseased states.
6. Describe common medications used in ICU which do not need dose modification in renal failure?
7. Discuss the causes and implications of thrombocytopenia in the second week of ICU stay in patients with no previous co-morbidities.
8. Discuss the statistical multi-variate methods commonly employed in ICU studies.
9. Discuss differences in perception of autonomy in Indian patients and care givers.
10. Discuss the correlation between clinical presentation and CSF findings in patients who present with fever and altered sensorium in your ICU.

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