

QP Code:101176

Reg.No.:.....

**P.G. Diploma Supplementary Examinations in Anaesthesiology (DA) -  
November 2015**

**Paper I- Basic Sciences as Applied to Anaesthesiology**

**Time: 3 hrs**

**Max marks:100**

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

**Essay:**

**(20)**

1. Briefly describe the normal anatomy of the right internal jugular vein (including its important relationships). What anatomical abnormalities of this vein can make cannulation hazardous or impossible. Outline the risks associated with cannulation of this vessel and how they can be minimised.

**Short essays:**

**(8x10=80)**

2. What complications may result from facemasks/laryngeal mask airways.
3. How does a rotameter work. Describe its advantages and limitations
4. List the classes, with an example of each, of anticoagulants and antiplatelet drugs in current clinical practice with brief description of mechanism of action.
5. What is the physiological basis of pre oxygenation for anaesthesia. Describe a method of pre oxygenation and how you would assess its adequacy.
6. What is bi spectral analysis (BIS). What is the suggested interpretation of BIS values.
7. What is evidence-based medicine. How would you apply the process to your clinical practice.
8. What are the indications and contraindications for the use of an arterial tourniquet. What complications may arise from the use of such a tourniquet .
9. What is the mode of action of epidural opioids. Discuss the relative merits of epidural fentanyl.

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