

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL, TELANGANA STATE – 506 002**

**M.D/ M.S DEGREE SUPPLEMENTARY EXAMINATIONS: MAY,2025**

**ANAESTHESIOLOGY**

**PAPER – I**

**(BASIC SCIENCES IN RELATION TO ANAESTHESIOLOGY)**

**Time: 3 Hours**

**Max Marks: 100**

**Note:** Answer all questions

Give Diagrammatic representation wherever necessary

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**Write a short essay on the following:**

**10 X 10 = 100**

1. Discuss the anatomy of Internal jugular vein, the techniques of cannulation. Enumerate the indications, uses and complications.
2. What are the liver functions? How are these functions important to anaesthesiologists?
3. Describe ventilation/ perfusion ratio in detail including factors affecting it.
4. Enumerate antihypertensives and discuss the perioperative use of antihypertensives.
5. What is hypoxic pulmonary vasoconstriction and its role in anaesthesia?
6. Safety mechanism to prevent the delivery of hypoxic mixture in anaesthesia machine.
7. W.T.G Morton.
8. Venture principle and its clinical application.
9. Ultrasonography- principles and its use in anaesthesia.
10. Discuss the advantages and disadvantages of Crystalloids.

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