

**ANAESTHESIOLOGY**  
**PAPER-IV**TIME: 3 HOURS  
MAX. MARKS: 100

ANS/J/19/01/IV

**IMPORTANT INSTRUCTIONS**

- This question paper consists of 10 questions divided into Part "A" and part "B", each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

**Write short notes on:****PART A**

1. What is neuropathic pain? Discuss various interventional pain management technique for neuropathic pain. 4+6
2. What is the cause of hypoxemia in an acute respiratory distress syndrome (ARDS)? Describe protocol for lung protective ventilation in ARDS. 5+5
3. Prepare a TPN regimen for a 52-year-old female patient of body weight 60kg. She is not malnourished and has no volume restriction. 10
4. What are various modalities of providing extracorporeal life support? How will you provide extracorporeal membrane oxygenation (ECMO) in a patient of severe hypoxemia following H1N1 infection? 5+5
5. Describe pulmonary artery catheter with diagram. What are various techniques of measuring cardiac output? 5+5

**P.T.O.**

**ANAESTHESIOLOGY****PAPER-IV**

**Please read carefully the important instructions mentioned on Page '1'**

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

**PART B**

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| 6. How will you maintain a brain dead organ donor in ICU awaiting harvesting of organs for transplantation?                      | 10  |
| 7. Pathophysiology and management of postoperative visual loss.  | 5+5 |
| 8. What are various techniques to monitor depth of anaesthesia? Discuss bispectral index (BIS) and its usage during anaesthesia. | 5+5 |
| 9. Write guidelines for managing anti-platelets agents and anticoagulants in patients requiring neuraxial blockade.              | 10  |
| 10. a) Newer insulin<br>b) Gantacurium   | 5+5 |

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