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 questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
- Answer sheet(s) 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 sheet(s).
- 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.

PART A

1. What is the principle used in ultrasound scanning? Describe the applications of ultrasound in anaesthesia and intensive care.  
   
2. What are the objectives of preoperative anaesthesia check up in a patient scheduled for elective surgery? What is American Society of Anaesthesiologists (ASA) Physical Status Classification?  
   
3. What are the predictors of difficult mask ventilation? Write an algorithm/plan to manage a patient with predicted difficult mask ventilation.  
   
4. What is Oxygen flux? Draw oxygen haemoglobin dissociation curve and enumerate the factors producing leftward and rightward shift of the curve.  
   
5. Classify opioids according to their action on opioid receptors. Compare and contrast fentanyl and remifentanil.  

P.T.O.