

CARDIOTHORACIC SURGERY (PART-II/FINAL)**PAPER-III**Time: 3 hours
Max. Marks:100

CTS/J/20/04/III

Important Instructions:

- 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:

- a) What are the overall blood conservation strategies in cardiac surgery? 5+5
 - b) Mention the various parenteral and topical agents used for hemostasis describing their properties.
- a) What is frozen elephant trunk technique? 3+3+4
 - b) Describe its method.
 - c) What is 'Chimney graft'? Where is it used?
- a) What is high frequency oscillatory ventilation (HFOV)? 2+4+4
 - b) What are its indications and contraindications?
 - c) What are the treatment modalities used for congenital diaphragmatic hernia?
- a) What are the indications for lung transplant? 4+3+3
 - b) Compare single lung transplant with bilateral lung transplant.
 - c) What are the indications and outcome of living donor lobar lung transplantation (LDLLT)?
- a) Extracorporeal membrane oxygenation. 6+4
 - b) Intra-aortic balloon pump.
- a) Stem cells and its therapeutic uses in cardiovascular disease. 5+5
 - b) Cardiac resynchronization therapy.
- a) Discuss CTEPH (Chronic Thromboembolic Pulmonary Arterial Hypertension). 3+4+3
 - b) Clinical features and diagnostic criteria.
 - c) Surgical technique.
- a) Management of cyanotic spell. 5+5
 - b) Major aortopulmonary collateral arteries.

P.T.O.

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9. a) Mitral valve repair in rheumatic mitral valve disease. 5+5
b) Compare different kinds of annuloplasty rings available for mitral valve.
10. Total Anomalous Pulmonary Venous Connection(TAPVC): 3+3+4
a) Morphology.
b) Clinical features and diagnostic criteria.
c) Surgical management.

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