

**CARDIO THORACIC SURGERY**

**PAPER-III**

CTS/J/18/04/III

Time: 3 hours

Max. Marks:100

- *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 question to a question on a fresh page or leave adequate space between two answers.*
- *Draw table/diagrams/flowcharts wherever appropriate.*

Write short notes on:

- |    |  |       |
|----|--|-------|
| 1. | Chronic Pulmonary Thromboembolism:<br>a) Diagnosis and management<br>b) Results and late sequelae  | 5+5   |
| 2. | Extracorporeal membrane oxygenation:<br>a) Different modalities<br>b) Indications and contraindications<br>c) Current concept of use of ECMO in an adult                                 | 3+4+3 |
| 3. | a) Basis of Gene therapy for coronary artery disease<br>b) Future prospects of Gene therapy in coronary artery disease   | 5+5   |
| 4. | Minimally access coronary artery bypass surgery:<br>a) Various approaches<br>b) Port access<br>c) Advantages and disadvantages compared to conventional coronary artery bypass grafting. | 3+3+4 |
| 5. | Various adjuncts used in off pump coronary artery bypass surgery.  | 10    |
| 6. | In relation of heart transplantation:<br>a) Myocardial rejection<br>b) Endomyocardial biopsy<br>c) Treatment Regimen to prevent graft rejection.   | 3+3+4 |
| 7. | Aortic aneurysm:<br>a) Definition and Classification<br>b) Debranching<br>c) Hybrid procedures   | 4+3+3 |
| 8. | a) Various blood conservation methods during cardiac surgery.<br>b) New generation topical hemostatic agents used in cardiac surgery.  | 5+5   |

**P.T.O.**

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