FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

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: 5+5
    a) Diagnosis and management
    b) Results and late sequelae

2. Extracorporeal membrane oxygenation: 3+4+3
    a) Different modalities
    b) Indications and contraindications
    c) Current concept of use of ECMO in an adult

3. a) Basis of Gene therapy for coronary artery disease   5+5
    b) Future prospects of Gene therapy in coronary artery disease

4. Minimally access coronary artery bypass surgery: 3+3+4
    a) Various approaches
    b) Port access
    c) Advantages and disadvantages compared to conventional
       coronary artery bypass grafting.

5. Various adjuncts used in off pump coronary artery bypass   10
    surgery.

6. In relation of heart transplantation: 3+3+4
    a) Myocardial rejection
    b) Endomyocardial biopsy
    c) Treatment Regimen to prevent graft rejection.

7. Aortic aneurysm:
    a) Definition and Classification   4+3+3
    b) Debranching
    c) Hybrid procedures

8. a) Various blood conservation methods during cardiac surgery.   5+5
    b) New generation topical hemostatic agents used in cardiac
       surgery.

P.T.O.

POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.

9. a) What is Trans esophageal echocardiography?   4+3+3
    b) Its intra-operative advantages.
    c) Complications of trans esophageal echocardiography.

10. a) What is lung volume reduction surgery?   4+3+3
    b) Its inclusion and exclusion criteria.
    c) Its surgical techniques.

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