CATHIODORACIC SURGERY

PAPER - III

Time : 3 hours
Max. Marks : 100

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.

1. a) Describe the applied anatomy of mitral valve. 5+5
   b) What are the surgical methods to tackle ischemic mitral regurgitation?

2. Discuss lung transplant under the following headings: 4+4+2
   a) Indications
   b) Post operative complications
   c) Results

3. a) What is PET? 1+4+5
   b) What is its role in SOL of lung?
   c) What is its role in ischaemic myocardium and ischaemic cardiomyopathy?

4. a) What is Lung Volume Reduction Surgery (LVRS)? 1+(3+3)+3
   b) Mention the inclusion and exclusion criteria.
   c) Mention the surgical techniques.

5. a) State the materials used in making bio-valves and outline the treatment procedures available. 5+5
   b) Discuss the current status of Bio-prosthetic valve uses.

6. a) What is patient-prosthetic mismatch (PPM)? 3+2+5
   b) Classify PPM.
   c) How do you investigate a patient suspected to have severe PPM?

7. a) What is cardiac MRI? 2+(3+3+2)
   b) Explain its relevance in defining anatomy, physiology and function of heart with examples

8. a) Discuss intra-operative graft patency assessment during CABG. 5+5
   b) Discuss briefly background and current status of TMR (Trans-Mycardial Revascularization).

9. Describe the pathogenesis, causes and management of pulmonary hypertensive crises. 3+2+5

10. a) Discuss the immuno-pathology of myasthenia gravis 5+5
    b) Discuss the biological markers in carcinoma lung.

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