9.

10.

hypertensive crises.

CARDIOTHORACIC SURGERY

PAPER - III

CTS/D/13/04/III

3+2+5

5+5

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.b) What are the surgical methods to tackle ischemic mitral regurgitation?	5+5
2.	Discuss lung transplant under the following headings: a) Indications b) Post operative complications c) Results	4+4+2
3.	a) What is PET?b) What is its role in SOL of lung?c) What is its role in ischaemic myocardium and ischaemic cardiomyopathy?	1+4+5
4.	a) What is Lung Volume Reduction Surgery (LVRS)?b) Mention the inclusion and exclusion criteria.c) Mention the surgical techniques.	1+(3+3)+3
5.	a) State the materials used in making bio-valves and outline the treatment procedures available.b) Discuss the current status of Bio-prosthetic valve uses.	5+5
6.	a) What is patient-prosthetic mismatch (PPM)?b) Classify PPM.c) How do you investigate a patient suspected to have severe PPM?	3+2+5
7.	a) What is cardiac MRI?b) Explain its relevance in defining anatomy, physiology and function of heart with examples	2+(3+3+2)
8.	 a) Discuss intra-operative graft patency assessment during CABG. b) Discuss briefly background and current status of TMR (Trans-Myocardial Revascularization). 	5+5

Describe the pathogenesis, causes and management of pulmonary

a) Discuss the immuno-pathology of myasthenia gravis

b) Discuss the biological markers in carcinoma lung.