

FINAL EXAM
 DECEMBER 2015

NATIONAL BOARD OF EXAMINATIONS

CARDIOTHORACIC SURGERY
PAPER – I

CTH/D/15/4/I

 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.

Write Short notes on:

1.	Anatomy of Mitral valve in reference to: a) Types of chordae. b) Fibrous Trigones and their anatomical relations. c) Carpentier's classification of Mitral Regurgitation. d) Mitral Leaflets.	3 3 2 2
2.	Newer Anticoagulant Agents: a) Enumerate them. b) Mechanism of Action. c) Disadvantages. d) Advantages over Warfarin. e) Antidote.	2x5
3.	a) Intention to Treat Analysis. b) Level of Evidence. c) Hazard Ratio. d) Confidence Interval.	2.5x4
4.	Cardiopulmonary Bypass: a) Alfa stat versus pH stat strategy. b) Recent advances. c) Pulsatile versus Non pulsatile flow.	4 3 3
5.	Coronary Sinus: a) Anatomy and tributaries. b) Therapeutic interventions through Coronary sinus: i. Surgical ii. Percutaneous	4 3 3
6.	a) Ejection Fraction and its reliability b) LVEDP(L.V.End Diastolic Pressure) c) Qp:Qs Ratio and its calculation d) Pulmonary Capillary Wedge pressure – Relevance and Fallability	2 2 3 3
		P.T.O.

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7.	a) Interventricular dependence. b) Action potential of Cardiac myocyte. c) Embryology of atrial septum.	3 3 4
8.	a) Lymphatic drainage of lungs. b) Embryological basis of Pulmonary Sequestration	5 5
9.	a) Arterial supply of oesophagus. b) Drainage of lymphatic duct.	5 5
10.	Pathophysiological basis and aetiology of hoarseness of voice: a) Cardiac causes b) Pulmonary causes c) Vascular causes	4 3 3

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