

April-2001

[KD 008]

Sub. Code : 1154

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

**Paper IV — SPECIAL CARDIAC INVESTIGATIONS
AND THERAPEUTIC PROCEDURES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the current management of Cardiogenic shock. (25)
2. Discuss the usefulness of Myocardial perfusion Imaging in cardiology. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Non Coronary Cardiovascular Interventions Registry Data of India.
 - (b) Intra coronary β Radiation.
 - (c) Diagnostic Tests for Phaeochromocytoma.
 - (d) Diagnosis of Aortic Dissection.
 - (e) Biopptome.

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss acute rest myocardial perfusion imaging in the evaluation of patients with chest pain syndrome. (25)
 2. Describe the role of renin angiotensin system in blood pressure control and its implication in management of hypertension. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Colchicine in Cardiology
 - (b) Angiographic evaluation of tricuspid atresia
 - (c) Electrolyte disorder in congestive heart failure
 - (d) Management of left main stem lesions
 - (e) Up to date in Paediatric TEE.
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September-2002

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss briefly about diagnosis and treatment modalities of chronic Rheumatic mitral stenosis. (25)
2. Discuss treatment and therapeutic procedures in failed thrombolysis. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Causes of stent restenosis
 - (b) Nitric oxide in systemic hypertension
 - (c) Indications and therapeutic closure of patent ductus arteriosus in preterm infants
 - (d) Radiofrequency ablation in W.P.W. syndrome
 - (e) Management of symptomatic bradycardia.

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**Paper IV — SPECIAL CARDIAC INVESTIGATIONS
AND THERAPEUTIC PROCEDURES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of fetal echocardiography. (25)
 2. Discuss the concepts and potentials of cardiovascular gene therapy. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) GP II b – III a receptor antagonists
 - (b) Hormone replacement therapy
 - (c) Stent Vs Angioplasty in acute myocardial infarction
 - (d) Cardiac pacing in long QT syndrome
 - (e) Echo in cardiac tamponade.
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B. Write briefly on :

(10 × 5 = 50)

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Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams.

A. Write Essay :

(2 × 15 = 30)

(1) Implantable cardiac defibrillators — Discuss
with critical appraisal of the clinical trials. (15)

(2) Discuss in detail the pathophysiology and
management of instent restenosis. (15)

- (1) Heart rate variability.
 - (2) Nonsurgical treatment of coarctation of Aorta.
 - (3) Myocardial protection during cardiac surgery.
 - (4) Photodynamic angioplasty.
 - (5) Coronary dissection.
 - (6) Thrombolysis in pulmonary embolism.
 - (7) Electron beam CT.
 - (8) Myocardial contrast echo.
 - (9) Norwood procedure.
 - (10) ADMA.
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Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions : (2 × 15 = 30)

1. Describe in detail the procedure for Head Up Tilt Testing and interpretation of the same.

2. Role of biventricular pacing in heart failure.

II. Short notes : (10 × 5 = 50)

(a) Brachy therapy – Mechanism of Action, types

(b) Mechanism of In-Stent Restenosis

(c) Angio jet device – description and uses

(d) Carotid Intimal Medial Thickness (IMT)

(e) Amplatzer septal device occluder

(f) BNP

(g) Alcohol septal ablation – procedure

(h) High sensitive CRP

(i) Paclitaxol stents

(j) Indications for coronary angiogram in stable angina.

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Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

(1) Describe the phases of diastole. Discuss the various methods of assessing left ventricular diastolic function by echocardiography. (20)

(2) Discuss the current status of ablation therapy for cardiac arrhythmias. (15)

(3) Cardiac Resynchronisation Therapy (CRT) in Congestive Heart failure. (15)

II. Short notes : (6 × 5 = 30)

- (a) Contrast echocardiography.
- (b) Dobutamine.
- (c) Glycoprotein II_b and III_a inhibitors.
- (d) No reflow phenomenon.
- (e) Primary PTCA.
- (f) Radionuclide ventriculography.

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Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

1. Discuss "Bifurcation lesions" in LAD. (20)
2. Discuss "Aortic Dissection". (15)
3. Discuss "Rate control" versus "Rhythm control" in Atrial fibrillation. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Echocardiography in Cardiac Resynchronisation Therapy (CRT).
- (b) Multi-slice CT coronary angiography.
- (c) Fondaparinux.
- (d) Aspirin resistance.
- (e) Rescue PTCA.
- (f) Percutaneous Valve Replacement.

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II. Short notes :

(6 × 5 = 30)

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Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

I. Long Essay :

1. Discuss the role of transesophageal echocardiography in daily cardiology practice. (20)
2. Discuss management of broad QRS complex tachycardia. (15)
3. Discuss Aorto arteritis syndrome. (15)

(a) Clopidogrel.

(b) Endomyocardial biopsy.

(c) Pseudohypertension.

(d) Community preventive cardiology strategy.

(e) Left main stenting.

(f) HDL cholesterol.

August 2008

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Branch II -Cardiology

**Paper IV– SPECIAL CARDIAC INVESTIGATIONS AND
THERAPEUTIC PROCEDURES**

Q.P. Code: 161154

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss the role of cardiac MRI in cardiomyopathies.
2. How will you assess and manage coronary bifurcation lesions?

II. Write short notes on:

10 x 6 = 60 Marks

1. Radio frequency ablation in atrial fibrillation.
 2. Indications for heart-transplantation.
 3. Rheumatic prophylaxis.
 4. Echocardiographic features in Ebstein's anomaly.
 5. Electronic beam CT scan for coronary calcium.
 6. Niacin in dyslipidemia.
 7. ECG and electrolyte abnormalities.
 8. Severity of mitral regurgitation by echo-doppler.
 9. Indications for surgery in infective endocarditis.
 10. Prosthetic valve thrombosis.
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February 2009

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**Paper IV– SPECIAL CARDIAC INVESTIGATIONS AND
THERAPEUTIC PROCEDURES**

Q.P. Code: 161154

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Discuss the interventional therapy for patent Ductus arteriosus.
2. Management of left main disease – current status.

II. Write short notes on:

10 x 6 = 60

1. Intracardiac ultrasound.
2. Transradial catheterization.
3. IVC filters – current status.
4. Advances in AF ablation.
5. Fetal Echocardiography.
6. Newer therapy for pulmonary hypertension.
7. Off pump CABG.
8. Non invasive coronary angiography.
9. Percutaneous mitral valve repair.
10. Tilt table test.
