

March-1990

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D.M. DEGREE EXAMINATION, MARCH 1990.

Branch II — Cardiology

SPECIAL CARDIOLOGICAL INVESTIGATIONS AND
RECENT ADVANCES

Time Three hours

Answer ALL the questions

Dipyridamole Echocardiography test in Cardiology.

2. Discuss the peripheral and central haemodynamic changes during exercise in patients with chronic congestive heart failure and role of vasodilators in the management of congestive cardiac failure.
3. Briefly comment on
 - (a) Colour Doppler estimation of regurgitant volume in chronic aortic regurgitation.
 - (b) Myocarditis in Kawasaki syndrome — management and long term effect.
 - (c) Atherectomy devices.

D.M. DEGREE EXAMINATION, SEPTEMBER 1990

(Higher Specialities)

Branch II — Cardiology

Paper III — SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time : Three hours.

Maximum : 100 marks.

1. Critically review the role of endomyocardial biopsy in the diagnosis and management of cardiac diseases.
 2. Discuss critically the alternative to exercise stress test for evaluation of Ischaemic Heart Disease.
 3. Briefly comment on :
 - (a) Assessment of prosthetic heart valve function by Doppler Echocardiography.
 - (b) Vascular stents.
 - (c) Critical analysis of transthoracic versus transesophageal Echocardiography.
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March-1991

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D.M. DEGREE EXAMINATION, MARCH 1991.

(Higher Specialities)

Branch-II — Cardiology

Paper III — SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time : Three hours.

Answer ALL the questions.

1. Discuss the role of echocardiography in the diagnosis and management of coronary artery disease.
 2. Discuss the utility of nuclear cardiology in cardiac evaluation.
 3. Write short notes on :
 - (a) Exercise echocardiography.
 - (b) Magnetic resonance imaging in cardiology.
 - (c) Balloon intervention procedures in infants.
 - (d) Evaluation of sinus node function.
 - (e) Occlusion devices in the management of congenital heart diseases.
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D.M. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch II – Cardiology

Paper III

SPECIAL CARDIOLOGICAL INVESTIGATIONS AND
RECENT ADVANCES

Time : Three hours

Answer ALL questions.

1. Describe the role of PET scan in coronary artery disease.
 2. Discuss critically the value and methods of evaluation and cardiac output.
 3. Write short notes on :
 - (a) Myocardial contrast echo cardiography.
 - (b) Atherectomy devices.
 - (c) Usefulness of cardiac biopsy.
 - (d) Assessment of pacemaker malfunction.
 - (e) Late potentials.
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March-1992

13 J

D.M. DEGREE EXAMINATION, MARCH 1992

Branch II — Cardiology

SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Three hours

Maximum 100 marks

Discuss the Diastolic functions of the Left Ventricle
in detail and mention its clinical significance. (25 marks)

Discuss the various types of Rate — Adaptive
rhythm makers. (25 marks)

Write short notes on :

- (a) Pharmacologic stress imaging.
- (b) Intravascular Ultrasound.
- (c) Supported Angioplasty.
- (d) Haemodynamic effects of Intra Aortic Balloon
Inter Pulsation.
- (e) Digital and quantitative coronary arteriography.
(5 × 10 = 50 marks)

D.M. DEGREE EXAMINATION, SEPTEMBER 1992.

Branch II — Cardiology

Paper III — SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time : Three hours.

Maximum : 100 marks.

1. Discuss Electrophysiological concepts of anti-tachycardia pacing and its clinical application.
(25 marks)
 2. Discuss the aetiopathogenesis and lesions of Atherosclerosis.
(25 marks)
 3. Write short notes on:
 - (a) Myocardial Bridges.
 - (b) Endomyocardial Biopsy.
 - (c) Radio Nucleide ventriculogram in coronary artery disease.
 - (d) Thyrotoxic heart disease.
 - (e) Double Aortic Arch.(5 × 10 = 50 marks)
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November-1993

PR 3061

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Old/New Regulations)

Paper III — SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time Three hours. Maximum 100 marks.

Answer ALL questions.

- 1 Discuss the principles of management of VSD based on the natural history of the disease. (25)
 - 2 Discuss the present concepts in the management of unstable angina. (25)
 - 3 Write short notes on :
 - (a) Rheumatic nodules.
 - (b) Perindopril.
 - (c) Foetal echocardiography.
 - (d) Angioscopy.
 - (e) Labile hypertension. (5 × 10 = 50)
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D. M. DEGREE EXAMINATION

(Higher Specialities)

Branch II CARDIOLOGY

Oid/New Regulations

Paper III SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time : Three Hours

Maximum Marks : 100

Answer **ALL** Questions

1. Discuss the role of PTCA in Acute Myocardial Infarction and Unstable Angina (25)
2. Discuss the current status of management of asymptomatic triple vessel coronary artery disease. (25)
3. Write short notes on :
 - a) Perfusion balloon angioplasty.
 - b) Rotablator
 - c) Intra-aortic balloon pump.
 - d) Cordiomyoplasty.
 - e) Coronary angioscopy. (5 X 10 = 50)

[ND 106]

November-1994

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Old/New Regulations)

Paper III — SPECIAL CARDIOLOGICAL INVESTIGATIONS
INCLUDING RECENT ADVANCES

Time : Three hours

Maximum 100 marks.

Answer ALL questions

1. Discuss the present status of cardiac transplantation. (25)
2. Discuss the factors responsible for restenosis after PTCA and the measures to prevent it. (25)
3. Write short notes on :
 - (a) Adenosine.
 - (b) Arterial switch operation for congenital heart disease.
 - (c) Rheumatic chorea.
 - (d) Intravascular ultrasound.
 - (e) Hypertension of pregnancy.

(5 × 10 = 50)

BB 1061

April-1995

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch II – Cardiology

(Old/New Regulations)

Paper III – SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time Three hours

Maximum : 100 marks

Answer ALL questions.

Describe the interventional strategies in the management of obstructive vascular disorders. (25)

Discuss the indications, procedure and the results of primary TCA. (25)

Write short notes on : (5 x 10 = 50)

- (a) Head up Tilt Test.
- (b) Ace Gene.
- (c) Antimyosin Antibodies.
- (d) Nitric Oxide.
- (e) The V J.N.C. Report.

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Old/New Regulations)

**Paper III - SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES**

Time: Three hours

Max. marks:100

Answer All Questions

1. Discuss the role of foetal echo cardiography in detecting cardio vascular diseases. (25)
2. Describe the investigations and management of refractory heart failure. (25)
3. Write short notes on:
 - (a) Radio frequency catheter ablation
 - (b) Circadian variation of Arrhythmias
 - (c) Electro physiology of Ebstein's Anomaly
 - (d) Cardio vascular changes with anti-depressant drugs
 - (e) Coronary echo cardiography

(5x10=50)

April-1996

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Old/New Regulations)

Paper III - SPECIAL CARDIOLOGICAL INVESTIGATIONS
AND RECENT ADVANCES

Time: Three hours

Max. marks: 100

Answer All Questions

Present concepts on non-surgical management of
Patent Ductus Arteriosus. (25)

Cardiac transplantation,
- present status with emphasis on indications,
donor and recipient selection, methodology
and problems. (25)

Write short notes on:

(a) Stress Echo cardiography

(b) Biodegradable stents

(c) Intra Vascular Ultrasound

(d) Fab Digoxin specific fragments

(e) Femoral pseudoaneurysm. (5x10=50)

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology)

(Old/New Regulations)

Paper III - SPECIAL CARDIOLOGICAL INVESTIGATIONS AND RECENT ADVANCES

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss the role of trans oesophageal echo cardiography in the diagnosis of cardiac vascular diseases. (25)
2. Discuss the investigations and management of refractory arrhythmias. (25)
3. Write briefly on:
 - (a) Macrophage - atherosclerosis
 - (b) Chromosomal aberrations
 - (c) Pseudo fusion beats
 - (d) Laser thermal angioplasty
 - (e) Radio isotope renography.

(5x10=50)

D.M. DEGREE EXAMINATION
(Higher Specialities)
Branch II - Cardiology
(Revised Regulations)

Paper III - CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

Time: Three hours

Max. marks:100

Answer All Questions

1. Embryological, clinical and angiographic features of double outlet right ventricle- Discuss. (25)
2. The Third Heart Sound in Health and disease- Describe. (25)
3. Write briefly on:
 - (a) Haemodynamic alterations in pregnancy
 - (b) Beta blockers in heart failure
 - (c) Prosthetic valve endocarditis
 - (d) Proanthyuria
 - (e) Ventricular wall stress.

(5x10=50)

October-1997

MS 07

D.M. DEGREE EXAMINATION
(Higher Specialities)
Branch II - Cardiology
(Old/New Regulations)

**Paper III - SPECIAL CARDIOLOGICAL INVESTI-
GATIONS AND RECENT ADVANCES**

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe Hibernating Myocardium. Discuss its diagnosis and management. (25)
2. Discuss the causes of aortic regurgitation. How do you manage a patient with severe aortic regurgitation? (25)
3. Write briefly on:
 - (a) Ischaemic preconditioning
 - (b) Endothelin
 - (c) Cine MRI in cardiology
 - (d) Primary stenting
 - (e) Rate responsive pacemakers.

(5x10=50)

October-1997

MS 10

D.M. DEGRÉE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

Paper III - CLINICAL CARDIOLOGY INCLUDING RECENT ADVANCES

Time Three hours

Max. Marks 100

Answer all questions

Discuss utility of radiofrequency ablation in management of supraventricular tachycardia.

2. Discuss the current status of transcatheter devices for closure of left to right shunts.

3. Write short notes on

- (a) Glycoprotein IIA/IIIB receptor blocking agents
- (b) Current therapies for carotid artery stenosis
- (c) Thrombolytic therapy in acute pulmonary embolism
- (d) Application of Internet in Cardiology
- (e) Transmyocardial laser revascularisation.

(5 x 10 = 50)

D.M. DEGREE EXAMINATION .

(Higher Specialities)

Branch II - Cardiology

(New Regulations)

Paper III - SPECIAL CARDIOLOGICAL INVESTIGATIONS AND RECENT ADVANCES

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss the current trends on medical and surgical revascularisation trials of angina (25)
2. Describe hypertrophic cardiomyopathy, its genetics and natural course, pharmacology, role of pacing and surgical interventions contemplated. (25)
3. Write briefly on:
 - (a) Quantitative angioplasty
 - (b) Stress echo cardiography
 - (c) Potassium channel activators
 - (d) Prosthetic valve evaluation
 - (e) Tissue doppler and colour kinases.

(5x10=50)

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

Paper III - CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss GP IIb/IIIa antagonists. (25)
 2. Discuss the diagnosis and management of ruptured sinus of Valsalva. (25)
 3. Write briefly on:
 - (a) IABP
 - (b) Scope of foetal echocardiography
 - (c) Ramipril
 - (d) Cardiac biopsy
 - (e) Torsade de pointes. (5x10=50)
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[SM 007]

October-1998

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

**Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the presentation, diagnostic evaluation and modalities of treating dissection of aorta. (25)
2. Risk factors for coronary artery disease amongst Indians. (25)
3. Write brief notes on : (5 × 10 = 50)
 - (a) Genetic counselling parents of children with congenital heart disease
 - (b) Obesity and cardiovascular disease
 - (c) Monitoring patients on anthracyclines
 - (d) Measurement of coronary blood flow
 - (e) Hormone replacement therapy.

October-1999

[KA 007]

Sub. Code : 1153

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

**Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Write in detail about the role of angiotensin converting enzyme inhibitors in coronary artery disease. (25)
2. Write in detail about non invasive methods of estimation of left ventricular diastolic function. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Role of fluroscopy in cardiac calcifications
 - (b) Treatment of Acute Rheumatic fever
 - (c) Jugular venous pulse
 - (d) Phases of action potential
 - (e) Holter monitoring.

[KB 007]

April-2000

Sub. Code : 1153

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

**Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the advances in molecular genetics, new insight and detection methods in congenital heart diseases and its utility. (25)
2. Discuss in detail the differentiation of constrictive pericarditis and restrictive cardiomyopathy. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Aorto-pulmonary collaterals
 - (b) Chlamydia Pneumoniae
 - (c) C-reactive protein in Cardiology
 - (d) Clinical significance and behaviour of second heart sound in severe pulmonary hypertension
 - (e) Controversies in the genesis of Syndrome X.

October-2000

[KC 007]

Sub. Code : 1153

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the clinical, electrophysiological and genetic aspect of Brugada Syndrome. (25)
2. Discuss the drug induced heart failure. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Sulfonylurea in Cardiology
 - (b) Factors altering closure of ductus arteriosus
 - (c) Cardiovascular dysmetabolic syndrome
 - (d) Major electrolyte disorder in CHF*
 - (e) Conduction pathways in atrioventricular anomalies.

* CHF = Congestive Heart Failure