

April-2001

[KD 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 treatment of ventricular Arrhythmias in Heart Failure. (25)
2. Discuss the triggers of Acute Coronary Syndrome and their therapeutic considerations. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Myocardial Reperfusion Assessment
 - (b) M-mode Echo in Mitral Stenosis.
 - (c) Adenosine.
 - (d) Pacemaker malfunction.
 - (e) Atorvastatin.

November-2001

[KE 007]

Sub. Code : 1153

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch II — Cardiology

Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the dynamics and management of chronic heart failure and effect of therapy on survival. (25)
2. Discuss electrocardiogram as a prognostic measure to predict future cardiovascular events and mortality. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Arterial remodelling
 - (b) Primary prevention of rheumatic fever
 - (c) Sonicated albumin
 - (d) Reverse pulsus paradoxus
 - (e) Genetic pattern of hypertrophic cardiomyopathy

[KG 007] March-2002 **Sub. Code : 1153**

D.M. DEGREE EXAMINATION.

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Branch II — Cardiology

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

Time : Three hours ~~Maximum~~ : 100 marks

Answer ALL questions.

1. Discuss risk stratification in patients with acute coronary syndrome and strategies of treatment. (25)
2. Discuss new inotropic agents for decompensated heart failure. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Cardiovascular manifestation in rheumatoid arthritis
 - (b) Vaccine for rheumatic fever
 - (c) Pathology of sudden cardiac death
 - (d) Antibiotics in ischaemic heart disease
 - (e) Electrical alternans and its implication.

September-2002

[KH 007]

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Branch II — Cardiology

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**Paper III — CLINICAL CARDIOLOGY INCLUDING
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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Write in detail about symptoms, signs of hypertrophic obstructive cardiomyopathy and recent advances in treatment. (25)
2. Write about different types of prosthetic valves and management of prosthetic valve malfunction. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Spiral CT in coronary artery disease
 - (b) Rate response pace maker
 - (c) Hibernating myocardium
 - (d) Dobutamine stress echocardiography
 - (e) Gene therapy in coronary artery disease.

April-2003

[KI 007]

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D.M. DEGREE EXAMINATION.

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Branch II — Cardiology

Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the definition and diagnosis of obesity.
(25)
 2. Discuss primary and secondary prevention of sudden cardiac death.
(25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Uhl's anomaly
 - (b) Newer thrombolytic agents
 - (c) Rheumatic heart disease in India. How it differs from west
 - (d) Rate responsive pacemakers
 - (e) Coronary intravascular ultrasound clinical applications.
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D.M. DEGREE EXAMINATION.

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Branch II — Cardiology

Paper III — CLINICAL CARDIOLOGY INCLUDING
RECENT ADVANCES

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 : (2 × 15 = 30)

(1) Discuss the management of a pregnant woman with prosthetic valve. (15)

(2) Discuss the role of afterdepolarisations in the genesis of arrhythmias. (15)

II. Short notes : (10 × 5 = 50)

(a) Primary prophylaxis of rheumatic fever

(b) Brugada syndrome

(c) Natural history of ventricular septal defect

(d) Adipose tissue as an endocrine organ

(e) Neural atrial fibrillation

(f) Shone's complex

(g) Kaliuretic peptide

(h) Pathogenesis of viral myocarditis

(i) Left ventricular outflow tract in d-TGA

(j) Familial myxomas.

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II. Short notes : (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.

I. Essay questions : (2 × 15 = 30)

(1) Discuss in detail the risk stratification of unstable angina.

(2) Discuss in detail the role of risk stratification of Hypertrophic cardiomyopathy.

- (a) Criteria for surgery in tricuspid atresia.
- (b) Indications for surgery in ASD.
- (c) BT shunt.
- (d) Survival in Eisenmenger syndrome.
- (e) Indications for surgery in Aortic stenosis.
- (f) Indications for non-invasive testing in patients with diabetes.
- (g) Anticoagulation in Atrial fibrillation.
- (h) Biphasic defibrillator.
- (i) Drugs for hypertensive crisis.
- (j) Bidirectional ventricular tachycardia.

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**Paper III — CLINICAL CARDIOLOGY INCLUDING
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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 the current recommendations for the evaluation and management of systemic arterial hypertension. (20)

(2) Describe the development of atrial septum and the various abnormalities in its development. Discuss the hemodynamics and management of various atrial septal defects. (15)

(3) Discuss Total Anomalous Pulmonary Venous Connection (TAPUC). (15)

II. Short notes : (6 × 5 = 30)

- (a) Evaluation of endothelial dysfunction.
 - (b) Wall motion score index.
 - (c) DDD pacing.
 - (d) Left ventricular mass.
 - (e) Chronic total occlusion.
 - (f) Management of proximal aortic dissection.
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**Paper III — CLINICAL CARDIOLOGY INCLUDING
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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:

**1. Classify " Pulmonary Hypertension" and discuss
"Eisenmenger's Syndrome" (20)**

**2. Describe the development of "Aorta" and discuss
"Congenital Coarctation of Aorta" (15)**

3. Discuss "Redefinition of Myocardial Infarction"(15)

II. Short notes :

(6 × 5 = 30)

(a) Natriuretic Peptides.

(b) Intra-Aortic Balloon Pump (IABP).

(c) Infective Endocarditis Prophylaxis.

(d) Endothelial dysfunction.

(e) Sleep disorders in cardiac diseases.

(f) Heparin Induced Thrombocytopenia (HIT).

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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 state of the art management of acute coronary syndrome. (20)

2. Discuss pathogenesis of sub acute bacterial endocarditis and add a note on criteria for clinical diagnosis. (15)

3. Discuss common adult cyanotic congenital heart disease. (15)

(a) "C" reactive protein.

(b) Arterial remodeling.

(c) Cardarone.

(d) Hope trial.

(e) Ventricular assist devices.

(f) Sick sinus syndrome.

August 2008

[KT 007]

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Branch II – Cardiology

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

Q.P. Code: 161153

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss diagnosis and management of total anomalous pulmonary venous connection (TAPVC).
2. Discuss diagnosis and management of pulmonary embolism.

II. Write short notes on:

10 x 6 = 60 Marks

1. “Courage” Trial. (Clinical outcomes utilizing revascularisation and aggressive drug evaluation).
 2. Bivalirudin.
 3. New classification of cardiomyopathy.
 4. Universal definition of myocardial infarction.
 5. Aspirin resistance.
 6. Stages of heart failure.
 7. Combination Drug-therapy in hypertension.
 8. Kawasaki’s disease.
 9. “High-risk features” of hypertrophic cardiomyopathy.
 10. Sub-mitral aneurysm.
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February 2009

[KU 007]

Sub. Code: 1153

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

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

Q.P. Code: 161153

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Management of cardiogenic shock in acute myocardial infarction.
2. Pathophysiology and evaluation of syncope.

II. Write short notes on:

10 x 6 = 60

1. JUPITOR trial.
2. Management of Ebstein's anomaly.
3. Management of ischemic VT.
4. Risk stratification in acute coronary syndrome.
5. Ballon mitral valvotomy in pregnancy.
6. Management of acute limb ischemia.
7. Prasugrel.
8. Pericardiocentesis.
9. Stent fracture.
10. Cardiac involvement in thyroid disorders.
