

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

**Paper II - APPLIED CARDIOLOGY INCLUDING
HAEMODYNAMICS**

Time: Three hours

Max. marks: 100

Answer All Questions

1. Discuss altered haemodynamics in infants with cyanotic congenital heart diseases. (25)
2. Discuss the electrocardiogram and associated pitfalls in the diagnosis of early myocardial infarction. (25)
3. Write short notes on:
 - (a) Systolic time intervals
 - (b) Effective pulmonary blood flow
 - (c) Diagnosis of pulmonary embolism
 - (d) Define compliance and resistance and its physiological importance
 - (e) Importance of receptors in Cardiology,

(5x10=50)

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Max.marks:100

Answer All Questions

1. Discuss in detail the current methods of assessing valvular regurgitation and their relative merits and limitations. (25)
2. Discuss in detail the current methods in assessing myocardial viability. (25)
3. Write briefly on:
 - (a) Persistent foetal circulation
 - (b) Pathophysiological basis of Tilt test
 - (c) Haemodynamics of septic shock
 - (d) Alcohol and heart
 - (e) Amyloid heart disease.

(5x10=50)

October-1997

MS 09

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Time Three hours

Max. Marks 100

Answer all questions

Discuss the current status of minimally invasive coronary artery bypass graft surgery (CABGS). (25)

2. Discuss the haemodynamics of right ventricular infarction and its practical implications. (25)

3. Write short notes on

- (a) Three dimensional echocardiography
- (b) Value of INR for monitoring anticoagulant therapy
- (c) Propafenone hydrochloride
- (d) Implantable cardioverter defibrillator
- (e) Catheter interventions in tetralogy of Fallot.

(5x10 = 50)

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Max.marks:100

Answer all questions

1. Discuss Fontan circulation. (25)
2. Discuss mitral valve apparatus and haemodynamics of nonrheumatic mitral regurgitation. (25)
3. Write briefly on:
 - (a) Pacemaker syndrome
 - (b) Premature opening of pulmonary valve
 - (c) Pulsus paradoxus
 - (d) Thyroid heart disease
 - (e) Prognosis of ventricular arrhythmias.

(5x10=50)

October-1998

[SM 006]

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Branch II — Cardiology

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Paper II — APPLIED CARDIOLOGY INCLUDING
HAEMODYNAMICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss briefly the evaluation of the cardio-vascular status of the Athlete's heart.
2. Describe briefly patho-physiology, haemodynamic and management of cardiac tamponade.
3. Write short notes on :
 - (a) Total ischemic burden
 - (b) Limitations in echocardiographic evaluation of mitral regurgitation
 - (c) Myocardial bridges
 - (d) Haemodynamic effects of contrast media
 - (e) Foetal echocardiography.

October-1999

[KA 006]

Sub. Code : 1152

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

**Paper II — APPLIED CARDIOLOGY INCLUDING
HAEMODYNAMICS**

Time : Three hours ,

Maximum : 100 marks

Answer ALL questions.

1. Discuss in detail about etiology, clinical manifestations, pathophysiology and treatment of acute aortic regurgitation. (25)
2. Write about clinical manifestations and treatment of cardiac myxomas. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Apex Cardiography
 - (b) Anthracyclin (Doxorubicin) cardiotoxicity
 - (c) Left ventricular aneurysm
 - (d) Silent myocardial ischaemia
 - (e) Alpha blockers.

April-2000

[KB 006]

Sub. Code : 1152

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

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Paper II — APPLIED CARDIOLOGY INCLUDING
HAEMODYNAMICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Give a critical review of present day knowledge of ventricular relaxation and compliance. (25)
 2. Discuss the autonomous nervous system of heart and its clinical significance. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Effective pulmonary blood flow
 - (b) Proarrhythmia—how to assess and manage it
 - (c) Congenital pericardial defects
 - (d) Coronary artery calcification and its significance
 - (e) Thyroid heart disease.
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October-2000

[KC 006]

Sub. Code : 1152

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

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Paper II — APPLIED CARDIOLOGY INCLUDING
HAEMODYNAMICS

Time : Three hours .

Maximum : 100 marks

Answer ALL questions.

1. Discuss altered haemodynamics in infants with congenital heart diseases. (25)
2. Discuss reflexes in Cardiology and its clinical significance. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Haemodynamic changes during exercise
 - (b) MacGregor theory of hypertension
 - (c) Haemodynamics of Pulsus Bisferiens
 - (d) Fontan circulation
 - (e) Reasons of ischaemic pain in HOCM* and severe AR*.

*HOCM = Hypertrophic Obstructive
Cardiomyopathy

* AR = Aortic Regurgitation