AK 11 April-1996

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

Paper I - BASIC SCIENCES - CARDIOLOGY

Time: Three hours Max. marks: 100

Answer All Questions

1. Describe endothelial dysfunctions in coronary artery disease. (25)

2. Discuss the developmental anomalies of the aortic arch and its clinical significance. (25)

3. Write short notes on:

   (a) Physiology of Pulsus Bisferiens

   (b) Anatomy and function of pericardium

   (c) Blood supply to the sinus node and its clinical significance

   (d) Anatomy of the interventricular septum

   (e) Lipoprotein 'A' (5x10=50)

April-1997

MP 08

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - CARDIOLOGY

(Revised Regulations)

Pape: - BASIC SCIENCES - CARDIOLOGY

Time: Three hours Max.marks:100

Answer All Questions

1. Describe in detail the diastolic dysfunction (25)

2. Discuss the developmental anatomy and pathophysiology of coarctation of aorta. (25)

3. Write briefly on:

(a) Ischaemic preconditioning

(b) After load mismatch

(c) Pathophysiology of pulsus alternans

(d) HDL cholesterol

(e) Myocardial bridging.

(5x10=50)

October-1997

NS 08

D.M. DEGREE EXAMINATION

(Higher Specialities)
Branch II - Cardiology
(Revised Regulations)

Paper - BASIC SCIENCES - CARDIOLOGY

Time Three hours Max. Marks 100

Answer all questions

1. Discuss the disposition of conduction system in corrected transposition of great arteries.

2. Describe in detail the mechanism of accelerated atherosclerosis.

3. Write short notes on -
(a) New serum markers for diagnosis of myocardial injury
(b) Renin angiotensin system
(c) Histopathology of acute rheumatic carditis
(d) Ventricular remodelling
(e) Free radicals. (5 x 10 50)

SV 08 April-1998

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II - Cardiology

(Revised Regulations)

Paper I - BASIC SCIENCES - CARDIOLOGY

Time: Three hours Max.marks:100

Answer All Questions

1. Discuss methods to determine coronary blood flow and significance of coronary reserve. (25)

2. Discuss the embryology of the aortic arch and the pathophysiology of its congenital anomalies. (25)

3. Write briefly on:

   (a) Nitric oxide

   (b) Phase IV block

   (c) Adenosine

   (d) Metabolic equivalents

   (e) Factors determining closure of ductus arteriosus.

(5x10=50)

October-1998

[SM 005]

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

Paper I — BASIC SCIENCES — CARDIOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the development of atrial septum in relation of primum and secundum defects. (25)

2. Discuss in detail the anatomy of the conduction tissue of the heart. (25)

3. Write brief notes on : (5 × 10 = 50)

   (a) Mechanism of cyanotic spell

   (b) Late potentials

   (c) Multivariate analysis

   (d) Assessment of diastolic function of the heart

   (e) Myocardial metabolism.

October-1999

[KA 005] **Sub. Code : 1151**

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

Paper I — BASIC SCIENCES — CARDIOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss in detail about the second heart sound in health and disease. (25)

2. Write in detail about anatomy of conduction system of heart, mechanism and treatment of AV nodal reentrant tachycardias. (25)

3. Write briefly on : (5 × 10 = 50)

   (a) Nico Randil

   (b) Specific activity scale

   (c) Patent ductus arteriosus

   (d) Isometric handgrip

   (e) Pacemaker syndrome.

April-2000

[KB 005] **Sub. Code : 1151**

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

Paper I — BASIC SCIENCES — CARDIOLOGY

Time : Three hours, Maximum : 100 marks

Answer ALL questions.

1. Discuss the potassium channels of cardiac cell membrane and their function in relation to long QT syndromes. (25)

2. Discuss the various factors that affect the autoregulation of coronary blood flow. (25)

3. Write short notes on : (5 × 10 = 50)

(a) Anatomy and function of pericardium

(b) Role of trace elements in hypertension

(c) Electrophysiology of sino–atrial node

(d) Subendocardial oxygen supply/demand balance

(e) Anticardiolipin syndrome.

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October-2000

[KC 005] **Sub. Code : 1151**

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch II — Cardiology

(Revised Regulations)

Paper I — BASIC SCIENCES — CARDIOLOGY

Time : Three hours. Maximum : 100 marks

Answer ALL questions.

1. Discuss the mechanics of myocardial contractility and various determinants of cardiac contraction. (25)

2. Describe the development of atrioventricular valves and discuss the clinical syndromes due to their congenital anomalies. (25)

3. Write short notes on : (5 × 10 = 50)

(a) Metabolic equivalents

(b) Interleukin

(c) Afterload mismatch and its clinical significance

(d) Rate dependent bundle branch block and their electrophysiological mechanism

(e) Discuss embryology of conotruncal anomalies.