March-1990

6040 - A

M.D. DEGREE EXAMINATION, MARCH 1990

Branch III - Pathology

Paper II - GENERAL PATHOLOGY

ime : Three hours.

SECTION I

1. Discuss the Tissue Reactions to Viral Infections.

2. Discuss the Role of Environmental Factors in the Causation of Disease.

SECTION II

Write briefly on:

(a) Cell-cycle Kinetics, Growth Factors and Neoplasia.

(b) Histiocytic Disorders.

(c) Heritable Disorders of Connective Tissue.

(d) Legionellosis.

(e) Torch Complex Infections in the New-born.

(f) Free Radicals in Cellular injury and Biochemical and Ultra-structural changes in injured Cells.

152

M.D. DEGREE EXAMINATION, MARCH 1990

Branch III — Pathology

GENERAL PATHOLOGY

Time : Three hours

Answer ALL the questions.

1. Discuss amyloidosis.

2. Discuss immunity in leprosy.

3. Write briefly on :
   (*a*) Tobacco and neoplasia.
   (*b*) Carcinoid syndrome.
   (*c*) Mycetoma.
   (*d*) Radiation oncogenesis.
   (*e*) Fat necrosis.
   (*f*) Multi-nodular goitre.

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March-1991

M.D. DEGREE EXAMINATION, MARCH 1991.

Branch III — Pathology

Paper II — GENERAL PATHOLOGY

Time : Three hours.

Answer ALL the questions.

1. Discuss the role of Lymphokines in disease.

2. Discuss the characteristics of oncobetal antigens and current methodology for their identification

3. Write briefly on :

(a) Non-reactive tuberculosis.

(b) Chemotaxis and phagocytic function tests

(c) Para-neoplastic syndrome.

(d) Polymerase chain reactions.

(e) Monoclonal gammapathy.

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M.D. DEGREE EXAMINATION, SEPTEMBER 1991.

Branch III — Pathology

Paper II — GENERAL PATHOLOGY

Time : Three hours. Maximum : 100 marks.

Answer ALL the questions.

1. Discuss the pathogenesis of atherosclerosis. (25 marks)

2. Discuss the pathology of acquired immunodeficiency syndrome. (25 marks)

3. Write briefly on :

(a) Epithelial dysplasia.

(b) Alcoholic hepatitis.

(c) Cytomegalic inclusion disease.

(d) Pulmonary oedema.

(e) Retroviral oncogenes. (5×10=50 marks)

[256]

M.D. DEGREE EXAMINATION, SEPTEMBER 1992.

Branch III — Pathology

Paper II — GENERAL PATHOLOGY

Time : Three hours. Maximum : 100 marks.

Answer ALL questions.

1. Classify chemical carcinogens and describe the steps in chemical carcinogenesis. (25)

2. Classify neonatal jaundice and briefly describe their liver pathology. (25)

3. Write short notes on : (5 × 10)

(a) Phenylketonuria.

(b) T cell receptors.

(c) "Blotting" techniques.

(d) Interleukins.

(e) Retinoblastoma.

November-1993

[PR356]

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Old/New Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours. Maximum : 100 marks.

Answer ALL questions.

1. Discuss the role of macrophages in chronic inflammation and highlight the sequence of events in chemotaxis and phagocytosis. (25)

2. Discuss the pathophysiology of shock in Gram-negative bacterial infection. (25)

3. Write short notes on :

(*a*) Types of calcification.

(*b*) Oncogenes and Tumour suppressor genes.

(*c*) Chemical mediators in inflammation.

(*d*) Blood-Brain barrier.

(*e*) Epidermal Growth Factor. ($5 \times 10 = 50$)

April-1994

[VM1056]

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Old/New Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the pathogenesis of "shock" and describe the pathology of "shock" as seen in various organs. (25)

2. Discuss the causal mechanisms and the process of carcinogenesis. (25)

3. Write short notes on :

(a) The complement system and its reaction pathways.

(b) Classification and chemical nature of amyloid.

(c) Oppartunistic fungal infections.

(d) Interferous.

(e) Apoptosis. (5×10=50)

November-1994

[ND 156]

M.D DEGREE EXAMINATION

Branch III Pathology

(Old/New Regulations)

Paper II GENERAL PATHOLOGY

Time Three hours Maximum 100 marks

Answer All Questions

1 Discuss the classification, chemical nature, pathogenesis and clinical syndromes of amyloidosis (25)

2 Discuss the process of wound healing. What are the tissue differences in healing of wounds and on what factors are they based ? (25)

Write short notes on

(a) Disseminated intravascular coagulation

(b) Endocrine effects of tumours

(c) Transforming growth factor

(d) Tumour suppressor gene

(e) Preneoplasia (5×10=50)

April-1995

[SB 156]

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Old/New Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours. Maximum : 100 marks.

Answer ALL questions.

1. Describe the molecular genetics in carcinogenesis. (25)

2. Describe the recent technical advances in Histopathology. (25)

3. Write short notes on :

   (a) Metastasis Genes

   (b) Functional defects in Leukocytes

   (c) Tumour Markers

   (d) Sudden Infant Death Syndrome (SIDS)

   (e) Bacillary Angiomatosis. (5×10=50)

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April-1996

[AK 114]

M.D. DEGREE EXAMINATION

Branch III — Pathology

(Old/New/Revised Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the immunological basis for the classification of Leprosy. Write briefly on Histoid Leprosy. (25)

2. Discuss the Morphologic changes in cells and organs induced by Acute Radiation Injury. (25)

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

(a) Tumoral Calcinosis.

(b) Tumour Suppressor Genes.

(c) Disorders associated with Normal Sex Chromosomes.

(d) Relation of Epstein–Barr virus with human disease.

(e) Respiratory Distress Syndrome (RDS) in New Born.

October-1996

PK 114

M.D. DEGREE EXAMINATION

Branch III - Pathology

(Old/New/Revised Regulations)

Paper II - GENERAL PATHOLOGY

Time: Three hours Max. marks:100

Answer All Questions

1. Discuss calcium metabolism and its disorders. (25)

2. Discuss the pathogenesis and pathology of diabetes mellitus. (25)

3. Write briefly on:

   (a) Major histocompatibility complex

   (b) Tropical phagedenic ulcer

   (c) Cystic fibrosis

   (d) Complications of chronic alcoholism

   (e) Pathologic side effects of oral contraceptives.

(5x10=50)

April-1997

MP 114

M.D. DEGREE EXAMINATION

Branch III - Pathology

(New/Revised Regulations)

Paper II - GENERAL PATHOLOGY

Time: Three hours Max. marks:100

Answer All questions

1. Write the types of collagen and discuss the mechanism of wound healing. (25)

2. Mention the various patterns of lung injury related to air pollution and discuss the hazards of smoking. (25)

3. Write briefly on:

   (a) Cytoskeletal abnormalities

   (b) Karyotypic changes in tumours

   (c) RNA oncogenic viruses

   (d) Oral contraceptives and disease

   (e) Apoptosis.

(5x10=50)

October-1997

MS 114

M.D. DEGREE EXAMINATION

Branch III - Pathology

(Revised Regulations)

Paper II - GENERAL PATHOLOGY

Time: Three hours **Max. marks: 100**

Answer All Questions

Discuss the pathophysiological mechanism in a patient with (Endotoxic) shock due to gram negative septicemia. (25)

2. Discuss the current concepts and evidences for the role of trace elements in the causation of diseases. (25)

3. Write briefly on:

(a) Non-metastatic manifestation in malignant neoplasm

(b) Type IV hypersensitivity reaction its significance

(c) Neurocysticercosis

(d) Cytokines and their role in inflammation

(e) Non-reactive tuberculosis.

(5x10=50)

April-1998

SV 114

M.D. DEGREE EXAMINATION

Branch III - Pathology

(Revised Regulations)

Paper II - GENERAL PATHOLOGY

Time: Three hours Max.marks:100

Answer All Questions

1. Discuss the immunology of leprosy.

2. Discuss the role of viruses in carcinogenesis.

3. Write briefly on:

(a) Prions

(b) Clinical autopsy

(c) Quality control

(d) Apoptosis

(e) Lysosomal storage disorders.

(5x10=50)

October-1998

[SM 114]

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Revised Regulations)

Paper II — GENERAL PATHOLOGY

Time Three hours Maximum 100 marks

Answer ALL questions.

1. Discuss the various opportunistic infections. Write briefly about the clinical situations predisposing to opportunistic infections. (25)

2. Discuss the pathogenesis and pathology of shock. (25)

3. Write briefly on : (5 × 10 = 50)

(a) Basic structure of immunoglobulins.

(b) Angiogenesis in neoplasia.

(c) Intermediate filaments.

(d) Endocrine effects of tumours.

(e) Cytokines.

April-1999

[SG 114] **Sub. Code : 2014**

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Revised Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the nature, morphology and pathogenesis of amyloidosis. What are the various clinical syndromes of amyloidosis. (25)

2. Describe the classification and histogenesis of tumours. What is the role of ultrastructure, immunohistology, cytogenetics and molecular biology in tumour diagnosis. (25)

3. Write briefly on : (5 × 10 = 50)

   (a) Structure of the basement membrane.

   (b) Mediators of inflammatory reaction.

   (c) Asbestos related pathology.

   (d) Fat embolism.

   (e) Eosinophil leukocyte.

October-1999

[KA 114] **Sub. Code : 2014**

M.D. DEGREE EXAMINATION

(Old/New/Revised Regulations)

Branch III — Pathology

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the role of immunohistochemistry in the studying various disorders of human tissues. (25)

2. Describe the composition of tissue matrix with emphasis on collagen. What are collagen disorders? (25)

3. Write short notes on : (5 × 10 = 50)
   (a) Klinefelter's syndrome
   (b) Free Radicals in tissue injury
   (c) Growth factors
   (d) Viral inclusions
   (e) Pulmonary oedema.

April-2000

[KB 114] **Sub. Code : 2011**

M.D. DEGREE EXAMINATION.

(Common to OR/NR/Revised Regulations)

Branch III — Pathology

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the diseases associated with melanin pigment. (25)

2. Give an account of biological carcinogens. (25)

3. Write briefly on : (5 × 10 = 50)

   (a) Adhesion molecules in disease.

   (b) Air embolism.

   (c) Epithelioid cells.

   (d) Demonstration of fungi in tissue lesions.

   (e) Apoptosis.

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October-2000

[KC 114] **Sub. Code : 2011**

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Common to OR/NR/Revised Regulations)

Paper II — GENERAL PATHOLOGY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Discuss the nature, morphology and pathology of melanotic disorders. (25)

2. Describe the cellular and molecular events including the role of adhesive molecules in acute inflammation. (25)

3. Write briefly on : (5 × 10 = 50)

   (a) Turner's syndrome

   (b) Radiation injury

   (c) Healing of fracture

   (d) Pulmonary embolism

   (e) Birefringence.