

Reg. No.

HEALTH SCIENCES LIBRARY

MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2009

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Wednesday, April 01, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Describe the structure and functions of parathyroid glands. Discuss the differential diagnosis of hypercalcemia.
(20 marks)

2. Describe the bilirubin metabolism in health and disease.
(20 marks)

3. Write short notes on:
 - 3A. CD4 count
 - 3B. Apoptosis
 - 3C. T3 toxicosis
 - 3D. Proteinuria
 - 3E. Top of the basilar syndrome
 - 3F. Immune reactions

(10×6 = 60 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2009

SUBJECT: PAPER II: NEUROLOGY, RESPIRATORY DISEASES, BLOOD DISORDERS
AND ENDOCRINOLOGY

Thursday, April 02, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss etiology, clinical features and management of Cushings syndrome. Write a brief note on pseudo Cushings syndrome.
(20 marks)

2. Discuss the differential diagnosis of pulmonary infiltrates with eosinophilia. Write a brief note on bronchopulmonary aspergillosis (ABPA)
(20 marks)

3. Write short notes on:
 - 3A. Graft versus Host disease (GVHD)
 - 3B. Cluster headache
 - 3C. Sick euthyroid syndrome
 - 3D. Progressive multifocal leukoencephalopathy
 - 3E. Refractory asthma
 - 3F. Diabetic neuropathy

(10×6 = 60 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2009

**SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,
COLLAGEN DISEASE, GENETICS, IMMUNOLOGY AND RENAL DISORDER**

Friday, April 03, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Describe the etiology, clinical features and management of Gastro Esophageal Reflux Disease (GERD).

(6+6+8 = 20 marks)

2. Describe the etiology, pathophysiology, clinical features and management of renovascular hypertension.

(2+4+6+8 = 20 marks)

3. Write short notes on:
 - 3A. Spontaneous bacterial Peritonitis
 - 3B. Takayasu's disease
 - 3C. Antiphospholipid syndrome
 - 3D. Ig A Nephropathy
 - 3E. Gene therapy
 - 3F. Ig G (immunoglobulin G)

(10×6 = 60 marks)



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MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2009

**SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY
AND RECENT ADVANCES**

Saturday, April 04, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss briefly the diagnosis and management of Tuberculosis in a HIV infected individual.
(10+10 = 20 marks)

2. Briefly elaborate about the DUKE criteria for the diagnosis of Infective Endocarditis. Briefly describe how you would manage a case of proven Streptococcal / Enterococcal Endocarditis.
(10+10 = 20 marks)

3. Write short notes on:
 - 3A. Atypical antipsychotic drugs
 - 3B. Diagnosis and management of Amoebic Liver Abscess
 - 3C. PET Scans
 - 3D. Drug eluting stents: current controversies
 - 3E. Ecstasy (MDMA)
 - 3F. Pharmacogenomics

(10×6 = 60 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2009

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Monday, October 05, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss the normal function of the Kidneys briefly and explain the derangement that happen in chronic kidney disease.
(20 marks)

2. Discuss the normal Hypothalamopituitary-Adrenal axis and explain how this is applied in investigating various causes of Cushing Syndrome.
(20 marks)

3. Write short notes on:
 - 3A. Hypertension with hypokalemia.
 - 3B. Crossed Hemiplegia.
 - 3C. Hypoxia Algorhythm.
 - 3D. Pathophysiology of Diabetic ketoacidosis.
 - 3E. Patho-clinical correlation in Horner's Syndrome.
 - 3F. Leucoerythroblastic blood picture.

(10×6 = 60 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2009
SUBJECT: PAPER II: NEUROLOGY, RESPIRATORY DISEASES, BLOOD DISORDERS
AND ENDOCRINOLOGY

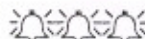
Tuesday, October 06, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Describe various movement disorders. Describe the clinical features, diagnosis and management of Huntington's disease.
(20 marks)
2. Describe the classification, clinical features, diagnosis and management of interstitial lung diseases.
(20 marks)
3. Short notes:
 - 3A. Subclinical hypothyroidism.
 - 3B. Mechanisms and treatment of insulin resistance.
 - 3C. Diagnosis and treatment of extraadrenal pheochromocytoma.
 - 3D. Disseminated intravascular coagulation.
 - 3E. Paroxysmal cold haemoglobinuria.
 - 3F. Hyperprolactinemia.

(10×6 = 60 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2009

SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,
COLLAGEN DISEASE, GENETICS, IMMUNOLOGY AND RENAL DISORDER

Wednesday, October 07, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss the therapeutic options for a 65 yr old diabetic with myocardial infarction and pulmonary edema. What are the measures that can reverse atherosclerosis?
(20 marks)
2. A 35 yr old lady is diagnosed to have chronic hepatitis. What clinical and investigational modalities would help to devise a treatment plan in her?
(20 marks)
3. Write short notes on:
 - 3A. Efficacy of steroids in collagen diseases.
 - 3B. Interstitial nephritis.
 - 3C. Tests for chronic diarrhea.
 - 3D. Investigations for vasculitis.
 - 3E. Treatment of primary pulmonary hypertension.
 - 3F. Asymptomatic bacteriuria.

(10×6 = 60 marks)



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AND RECENT ADVANCES

Thursday, October 08, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss clinical features and management of opportunistic infections in HIV patients with CD4 count less than 200/cmm.
(20 marks)
2. Mention the various Arboviral infections, their spread, clinical features, laboratory investigations, management and prevention.
(20 marks)
3. Write short notes on:
 - 3A. Stroglyoidosis.
 - 3B. Etiological factors of Psychiatric disorders.
 - 3C. Management of Chloroquine resistant Malaria.
 - 3D. Alcohol dependency.
 - 3E. ACLS guidelines.
 - 3F. Tropical Pulmonary Eosinophilia.

(10×6 = 60 marks)

