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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (GENERAL MEDICINE) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Monday, July 03, 2006

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions.

1. Describe how blood pressure is controlled in health and explain how it is altered in essential hypertension.

(30 marks)

2. Answer briefly:

2A. Define various lung volumes and capacities and discuss how it is altered in disease?

2B. What are cytokines? Discuss the origin and functions of various cytokines.

2C. Explain the formation and circulation of cerebrospinal fluid and its clinical application.

2D. Describe the temperature regulation and explain how it is altered in disease states.

2E. Discuss gastrointestinal motility in health and diseases.

2F. Define acid base imbalances and describe their effects on the body.

2G. Describe the maturation pathway of formed elements of blood and discuss the role of haematopoietic growth factors in health.

(10×7 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – JULY 2006

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

Tuesday, July 04, 2006

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

1. Discuss the differential diagnosis of headache. Describe the aetiology, clinical manifestations and management of acute bacterial meningitis.

(30 marks)

2. Answer briefly:

2A. Discuss the diagnosis, assessment of severity and treatment of community acquired pneumonia.

2B. Discuss management of chronic myelogenous leukaemia.

2C. Discuss insulin use in acute care.

2D. Discuss goitrous hypothyroidism.

2E. Discuss pathogenesis of bronchial asthma and add a note on role of leukotriene modifiers in its treatment.

2F. How do you investigate sickle cell disease?

2G. Discuss male hypogonadism.

(10×7 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (GENERAL MEDICINE) DEGREE EXAMINATION – JULY 2006

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

Wednesday, July 05, 2006

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions.

1. Discuss the pathogenesis and therapy of gastric and duodenal ulcer diseases.

(30 marks)

2. Answer briefly:

2A. Discuss autoantibodies associated with rheumatological diseases.

2B. Discuss postmyocardial infarction risk stratification.

2C. Discuss the mechanism of reentry and describe the treatment of atrial fibrillation.

2D. Define and explain genetic testing with examples.

2E. What are the causes of acute pericardial effusion? Discuss clinical features and management of cardiac tamponade.

2F. Enumerate investigations to be done in patients of acute urinary tract infection and explain the indications.

2G. Discuss briefly thrombotic microangiopathy.

(10×7 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – JULY 2006

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

Thursday, July 06, 2006

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions.

1. A young male with history of high risk behaviour presents with prolonged fever, generalized lymphadenopathy and oropharyngeal candidiasis. Discuss the differential diagnosis and management of this patient.

(30 marks)

2. Answer briefly:

- 2A. Mechanisms of actions of antibacterial drugs and mechanisms of drug resistance.
2B. Diagnostic criteria and management of depression.
2C. Virtual endoscopy.
2D. Management of sepsis.
2E. Viral haemorrhagic fevers.
2F. Giardiasis.
2G. Recombinant fusion molecules.

(10×7 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Monday, December 04, 2006

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

1. Discuss the physiology of neuromuscular transmission. Mention the disorders of neuromuscular junction with detailed description of one of them.

(30 marks)

2. Write short notes:

- 2A. PCR.
- 2B. Thyrotoxic Acropachy.
- 2C. Anti Thrombin – III.
- 2D. Recombinant DNA Technique.
- 2E. Postinfarction risk judgment and management.
- 2F. Parenteral Nutrition.
- 2G. Role of factor VIII in disease.

(10×7 = 70 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2006

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

Tuesday, December 05, 2006

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

1. Discuss the differential diagnosis for a case of interstitial lung disease. Mention salient clinical features and discuss the role of various investigations in diagnosis and prognosis. Outline the management of idiopathic fibrosing alveolitis.

(30 marks)

2. Write short notes:
- 2A. Gene therapy for muscular dystrophy.
 - 2B. Management of Pyogenic meningitis.
 - 2C. Myelodysplastic syndrome.
 - 2D. Autoimmune hemolytic anemia.
 - 2E. Prandial glucose regulators.
 - 2F. SARS.
 - 2G. Thyroid antibodies.

(10×7 = 70 marks)

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2006

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

Wednesday, December 06, 2006

Time: 3 Hrs.

Max. Marks: 100

☞ **Answer all the questions.**

1. Discuss the risk factors, pathology, pathogenesis, signs and symptoms, diagnosis and prevention of atherosclerosis.

(30 marks)

2. Write short notes on:

- 2A. Dilated cardiomyopathy
- 2B. Infectious oesophageal disorders
- 2C. Anti Nuclear Antibodies
- 2D. Multifactorial inheritance
- 2E. Disorders of vasoactive amines
- 2F. Treatment of ankylosing spondylitis
- 2G. Non cirrhotic portal fibrosis.

(10×7 = 70 marks)

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MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2006

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

Thursday, December 07, 2006

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

1. Enumerate the various opportunistic infections seen in AIDS. Describe in detail aetiology, clinical features, complications and management of cryptococcal meningitis.

(30 marks)

2. Write briefly on:

2A. Panic disorder.

2B. Anthrax.

2C. Leukotrine antagonists.

2D. Thrombophilia.

2E. Newer antiepileptic drugs.

2F. Oral insulins.

2G. Cloning.

(70 marks)

