

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
MD (PAEDIATRICS) DEGREE EXAMINATION – OCTOBER 2022

PAPER I

Monday, October 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Essay Questions:**

1. Discuss the clinical approach to a child with Short stature
(15 marks)

2. Discuss the pathophysiology, clinical manifestations and management of Kwashiorkor
(15 marks)

3. **Write short notes on:**

3A. Intellectual Disability: definition, etiology and management.

3B. Clinical approach to SIADH

3C. Explain Fluorescent In Situ Hybridisation (FISH) in genetics.

3D. Mention etiology and management of hyperkalemia

3E. Obesity in children – etiology, clinical features and management

3F. Mechanism of action, clinical indications and side effects of oxcarbamazepine

3G. Piaget's theory

3H. Clinical features and management of nutritional rickets.

3I Organogenesis

3J. Adoption

(7 marks × 10 = 70 marks)



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MD (PAEDIATRICS) DEGREE EXAMINATION – OCTOBER 2022
PAPER II

Tuesday, October 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all Questions.**

✍ **Essay Questions:**

1. Discuss the etiology, clinical features and approach to management of a bleeding neonate
(15 marks)

2. Define the state hypoxic ischemic encephalopathy (HIE). Discuss the causes, clinical staging and approach to HIE in neonates.
(15 marks)

3. **Write short notes on:**
 - 3A. Kangaroo mother care
 - 3B. Parenteral Nutrition
 - 3C. Necrotizing enterocolitis
 - 3D. Acute flaccid paralysis surveillance (AFP) programme
 - 3E. Transport of sick neonates
 - 3F. IMNCI programme
 - 3G. Intrauterine infections
 - 3H. Neonatal Mortality
 - 3I. Hospital waste disposal
 - 3J. Baby friendly hospital initiative (BFHI)

(7 marks × 10 = 70 marks)



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MD (PAEDIATRICS) DEGREE EXAMINATION – OCTOBER 2022

PAPER III

Thursday, October 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all Questions.**

✍ **Essay Questions:**

1. 1 year old child is brought with h/o fever of 5 days, temperature is 105 degree F, warm peripheries, drowsy, RR of 80 per month, grunting present, BP not recordable. What are the possibilities and how will you give emergency management?

(15 marks)

2. When would you suspect immune deficiency state? Discuss the clinical manifestations of cellular and humoral immune deficiency states

(15 marks)

3. **Write short notes on:**

- 3A. Investigations in a case of Kwashiorker
- 3B. Inhalation therapy in chronic bronchial asthma
- 3C. H.Influenza vaccine
- 3D. Etiopathogenesis of obesity in children
- 3E. Diagnosis of juvenile Idiopathic arthritis
- 3F. Aseptic meningitis
- 3G. Nutritional recovery syndrome
- 3H. Dental caries
- 3I. Complications of falciparum malaria
- 3J. Fluid therapy in dengue

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MD (PAEDIATRICS) DEGREE EXAMINATION – OCTOBER 2022

PAPER IV

Friday, October 07, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essay:

1. Write the etiology, clinical features and management of Gullian Barre Syndrome.
(15 marks)

2. A 2 month old infant presents with breathlessness, bounding pulses and machinery murmur.
 - i) Discuss the diagnosis and management of this case.
 - ii) Hyperoxia test
(15 marks)

3. **Write short notes on:**
 - 3A. Strategies for management of Acute chest syndrome in a child with sickle cell anemia
 - 3B. Management of oedema in a child with Nephrotic syndrome
 - 3C. 16 year old girl presents with a neck swelling which moves with deglutition. Discuss the management of this case
 - 3D. Clinical implications of urine analysis
 - 3E. Functional constipation
 - 3F. Preparticipation sports examination (PSE)
 - 3G. Diagnosis of PCOS
 - 3H. CROUP
 - 3I. Tumor lysis syndrome
 - 3J. Autoimmune hepatitis
(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2022
PAPER I

Monday, October 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions**
- ✍ **Write neatly, legibly and to the point**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate**
- ✍ **Use margin space only to write question number as in question paper**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer**

1. Write the normal body temperature regulation. Discuss the pathogenesis of fever and write the difference between fever and hyperthermia. (15 marks)

2. Discuss the Visual pathway and discuss the diseases related to it. (15 marks)

3. **Write notes on:**

- 3A. Significance of Lead aVR
- 3B. Locked in syndrome and its differential diagnosis
- 3C. Measurement of Insulin resistance
- 3D. Approach to patient with Hyponatremia
- 3E. Orthodeoxia
- 3F. Gynaecomastia
- 3G. Polymerase chain reaction (PCR) and its clinical implication
- 3H. Clinical uses of peripheral smear
- 3I. CRP
- 3J. Autocrine function of kidney

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2022

PAPER II

Tuesday, October 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Essay Questions:**

1. Discuss the management of acute stroke.

(15 marks)

2. Discuss the pathophysiology and management of sleep apnoea syndrome.

(15 marks)

3. **Write short notes on:**

3A. Type II respiratory failure

3B. Vonwillebrands disease

3C. Polycythemia rubra vera

3D. Reversible dementias

3E. Musculoskeletal abnormalities in endocrine disorders

3F. Temporal lobe epilepsy

3G. Approach to a patient with pancytopenia

3H. Metformin revisited

3I. Hashimoto's thyroiditis

3J. Incretin based therapies in diabetes mellitus

(7 marks × 10 = 70 marks)



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PAPER III

Thursday, October 06, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions.**
- ✍ **Write neatly, legibly and to the point**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate**
- ✍ **Use margin space only to write question number as in question paper**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

1. What are the causes of exudative ascites? Discuss evaluation of exudative ascites in a 40 yr male. Add a note on spontaneous bacterial peritonitis
(15 marks)

2. Describe the differential diagnosis of small joint arthritis. Write in brief the laboratory evaluation and treatment plan for a 24 years old female with SLE. Enumerate the complications she can develop in future.
(15 marks)

3. **Write short notes on:**

3A. Chronic constrictive pericarditis

3B. Evaluation of coronary plaque

3C. Genetic counseling in hemolytic anemias

3D. Osteoporosis

3E. Diagnosis and treatment of Helicobacter pylori

3F. Classify acute renal failure. Discuss the pathogenesis and management of contrast induced nephropathy.

3G. Urinary incontinence.

3H. Discuss the pathophysiology of syncope. List the causes of syncope.

3I. Genetically determined drug disposition and variable effects.

3J. Microscopic polyangiitis

(7 marks × 10 = 70 marks)



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PAPER IV

Friday, October 07, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Write neatly, legibly and to the point**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate**
- ✍ **Use margin space only to write question number as in question paper**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer**

✍ **Essay Questions:**

1. A 50 year male farmer presents with h/o fever of 6 month's duration and progressively worsening dyspnoea. Clinical examination reveals emaciated person with oral candidiasis, cyanosis, clubbing and tachypnoea. Discuss the differential diagnosis, approach to and treatment of this patient.

(15 marks)

2. A 82 year man admitted for an acute respiratory infection had to be intubated and mechanically ventilated. Discuss the risks of nosocomial medical problems likely to occur in this patient and describe the steps to avoid them.

(15 marks)

3. **Short Essays:**

- 3A. Topical and biologic therapies for diabetic foot ulcer
- 3B. Discuss the management of a young woman, survivor of a recent suicidal attempt
- 3C. Recent advances in the treatment of atrial fibrillation
- 3D. Dopamine based therapy in medicine
- 3E. Pre exposure HIV prophylaxis
- 3F. Obsessive-compulsive disorder-clinical features, diagnostic criteria and treatment
- 3G. Interleukin based therapy
- 3H. Pharmacogenomics in today's world
- 3I. Treatment of VRSA
- 3J. Continuous glucose monitoring

(7 marks × 10 = 70 marks)

