

Roll no.

P-2704

M.D. EXAMINATION, APRIL, 2008

M.D. - PAEDIATRICS

(Paper - I)

(Basic Sciences applied to Paediatrics & Neonatology)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Discuss normal haemostasis and its laboratory evaluation. 20 marks
 2. Describe embryological development of oesophagus and stomach.
Discuss assessment and management of gastroesophageal reflux disease (GERD). 20 marks
 3. Describe pathogenesis of : 10 marks each
 - (a) Cerebral odema
 - (b) Odema in Nephrotic Syndrome
 4. Write short notes on :
 - (a) Sensitivity and specificity in diagnostic test interpretation 6 marks
 - (b) Neonatal necrotizing enterocolitis 7 marks
 - (c) Bilious vomiting in a neonate 7 marks
 5. Write short answers :
 - (a) I.M.N.C.I. 6 marks
 - (b) Mechanism of phototherapy 7 marks
 - (c) Monovalent polio vaccine 7 marks
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Roll no.

P-2705

M.D. EXAMINATION, APRIL, 2008

M.D. - PAEDIATRICS

(Paper - II)

(Neonatology, Paediatrics, Community Paediatrics)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Write briefly on :

- (a) Etiology, types and management of neonatal seizures.
- (b) Approach to a neonate with prenatal onset of structural defects.

20 marks

20 marks

2. Write short notes on :

10 marks each

- (a) Drug therapy in malaria
- (b) Adoption
- (c) Treatment, prevention and complications of Bordetella Pertusis

3. Discuss briefly :

15 marks each

- (a) Psycho-social problems during adolescence
 - (b) Water soluble vitamins
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Roll no.

P-2706

M.D. EXAMINATION, APRIL, 2008

M.D. - PAEDIATRICS

(Paper - III)

(General Paediatrics and Advances in Paediatrics)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Discuss the patho-physiology clinical features, lab diagnosis and treatment of Autoimmune Haemolytic Anaemia. 20 marks
 2. Write notes on : 10 marks each
 - (a) Kawasaki Disease
 - (b) Phenyl Ketonuria
 3. Discuss the following :
 - (a) Micronutrients 10 marks
 - (b) Inutero stem cell therapy 15 marks
 4. Discuss the clinical features and management of a case of iron poisoning. 15 marks
 5. Write notes on : 10 marks each
 - (a) Hypernatremic dehydration and its management
 - (b) Neonatal Thrombocytopenia
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Roll No.

P – 33

M. D. EXAMINATION, April/May, 2009

PEDIATRICS

Paper First

(Basic Sciences as Applied to Pediatrics)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions. All questions carry equal marks.

1. Write the developmental basis of neural tube defect. How can they be diagnosed antenatally ?
2. Write causes and pathophysiology of hypertension in children. Enumerate the diagnostic investigation for renal hypertension.
3. Write the basis of fetal origin of adult disease. Suggest strategies for prevention of syndrome X.
4. Define extensive drug resistant tuberculosis (XDR). Give methods of rapid diagnosis of drug resistant tuberculosis.
5. Write the causes and pathophysiology of bronchiectasis in children. In what way can molecular techniques be used for diagnosis of these disorders ?

M. D. EXAMINATION, April/May, 2009

PEDIATRICS

Paper Second

(Neonatology and Community Pediatrics)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Describe various components of biophysical profile. 10
2. Give the composition of surfactant. Describe various preventive strategies for Hyaline Membrane Disease (HMD). 20
3. Mention the modified Bell's staging for necrotising enterocolitis (NEC). Give treatment guidelines for each of them. 20
4. Give acute flaccid paralysis (AFP) case classification flowchart. How will you collect, store and transfer stool sample in a case of AFP ? 20
5. Describe recent Indian Academy of Pediatrics (IAP) recommendations on immunization. Tabulate schedule for 7 years completely unimmunised child. 20
6. Enumerate causes of LBW in India. Write timings and dosages of various nutritional supplements in low birth weight babies (LBW). 10

20

Roll No.

P-35

M. D. EXAMINATION, April/May, 2009

PEDIATRICS

Paper Third

(General Pediatrics and Advances in Pediatrics)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions. Time your answer according to marks allocated.

1. Enumerate the causes of Pyrexia with arthralgia or arthritis.
Discuss diagnosis and management of Juvenile Rheumatoid arthritis. 20
2. Discuss obesity in pediatric practice and its management. 20
3. Write in brief about the following :
 - (i) Dealing with pediatric death in ward and emergency. 7
 - (ii) Your personal opinion about rotavirus vaccine and influenza vaccine. 7
 - (iii) Role of drugs in ADHD. 6
4. Write short notes on the following : 5 each
 - (a) Pre-pubertal gynecomastia

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- (b) Diagnosis of Hirshsprung disease
- (c) Neonatal rash
- (d) Kawasaki syndrome

5. Write in brief about the following : 5 each

- (a) Immunity enhancing drugs chief and techniques
- (b) Managing myoclonic seizures
- (c) Managing anaemia C raised bilirubin
- (d) Recent treatment of Kala-azar

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M. D. EXAMINATION, April/May, 2009

PEDIATRICS

Paper Fourth

(Recent Advances)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss the aetiology, epidemiology, pathophysiology, clinical features and management of Acute Bronchiolitis. 20
2. Discuss the clinical features, diagnostic criteria and management of Dengue Haemorrhagic Fever. 20
3. Write notes on the following : 10 each
 - (i) Newer vaccines
 - (ii) Role of zinc, probiotics and antisecretory agents in Acute Diarrhoea
 - (iii) Prenatal Diagnosis of Thalassemia major
4. Write notes on the following : 10 each
 - (i) Vaccine associated paralytic poliomyelitis
 - (ii) Follow up of NICU graduates
 - (iii) Recurrent Meningitis

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POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MD PEDIATRICS
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe (i) The developmental milestones of a normal two years old child, and (ii) approach to a child with developmental delay. (20)
- Q. 2. Prepare a diet chart for (i) a normal one year old child and (ii) a severely malnourished one year old. Enumerate the complications of protein energy malnutrition. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Neuronal migration disorders
 - b. Renal function tests
 - c. Metabolic derangements in diabetic keto-acidosis.
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Probiotics
 - b. Anti- epileptic drug hypersensitivity syndrome
 - c. Neonatal screening
 - d. High frequency ventilation
 - e. Vaccines for Japanese encephalitis.

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MD PEDIATRICS
(PAPER TWO)**

NEONATOLOGY & COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe the indications and methods of ante-natal diagnosis. (20)
- Q. 2. What are the physiological handicaps of prematurity? (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Principles of IMNCI
 - b. National nutrition programs
 - c. Fetal circulation
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Kangaroo Mother Care
 - b. New Ballard Score
 - c. Congenital Rubella Syndrome
 - d. Primary Apnoea
 - e. Dysmorphism

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS & PEDIATRICS EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Define refractory epilepsy and discuss management. (20)
- Q. 2. Discuss pathophysiology of reactive arthritis. Explain differentiating points between acute rheumatic fever (ARF) and PSRA (Post Streptococcal Reactive Arthritis). (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Performance enhancing drugs and side effects used by adolescents.
 - b. Common haemorrhagic viral fevers around your area.
 - c. Common life threatening events in PICU.
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Diagnosing Gilbert's disease
 - b. Significance of Quanti-Feron T.B. test in paediatric practice
 - c. Management of Kala-azar
 - d. Indications of steroids in prenatal period
 - e. Bruxism

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

MD PEDIATRICS

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Define Acute Liver cell failure. Discuss aetiology and management including the recent advances. (20)
- Q. 2. Discuss the pathogenesis and newer diagnostic methods in childhood tuberculosis. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Persistent pulmonary hypertension
 - b. Neonatal screening programmes
 - c. Polymerase chain reaction and its significance in Pediatrics practice.
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Dengue shock syndrome
 - b. Foetal origin of adulthood diseases
 - c. Management of hypernatremic dehydration
 - d. Newer Vaccines
 - e. Liquid Ventilation

POST GRADUATE EXAMINATION, APRIL- 2012

**MD PEDIATRICS
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** What is re feeding syndrome? Discuss its pathophysiology and management. (20)
- Q. 2.** Discuss the structure and medial problems of umbilical cord in a neonate. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Breast milk
 - b. Neural tube defects
 - c. Day to day care of an immuno-compromised child
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Vitamin K
 - b. Adolescent turmoil
 - c. First generation antiepileptic drugs
 - d. Liver function tests
 - e. Spinal cord at T₁ level

POST GRADUATE EXAMINATION, APRIL- 2012

**MD PEDIATRICS
(PAPER TWO)**

NEONATOLOGY & COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Describe clinical features, staging, investigations and management of NEC (Necrotizing Entero Colitis) in newborns. (20)
- Q. 2.** Describe APGAR scoring system and grading of birth asphyxia. Enumerate changes in the neonatal resuscitation protocol as per 2010 guidelines. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Define hypoglycemia in newborn. Describe management of persistent hypoglycemia.
 - b. Indications and timings of hearing assessment in high risk neonates.
 - c. Assessment and classification of a sick young infant as per IMNCI guidelines.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Management of baby born to Hepatitis B positive mother.
 - b. Volpe's staging of intra ventricular Hemorrhage (IVH).
 - c. Steps to prevent nosocomial infections
 - d. Health related millennium development goals
 - e. Juvenile Delinquency

POST GRADUATE EXAMINATION, APRIL- 2012

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS & PEDIATRICS EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Classify and enumerate various helminthic infestations seen in children. Describe the life cycle of *Ascaris lumbricoides*. What are the clinical manifestations of *Ascaris* infestations in children? Also describe its complications, management and prevention. (20)
- Q. 2.** What is Acute Renal Failure? Enumerate its causes. How will you differentiate the functional oliguria (Prerenal failure) from intrinsic renal failure in children? Also describe the management of a child having acute renal failure. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Complications of laryngeal diphtheria and their management.
 - b. Pathophysiology of sickle cell anemia. Also describe briefly types of crisis seen in sickle cell disease.
 - c. Prevention of Rheumatic fever
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. 'Acellular Pertussis Vaccine' and 'Reduced Antigen acellular pertussis vaccine'.
 - b. Management of status epilepticus
 - c. Treatment of symptomatic hyponatremia
 - d. Organophosphorus poisoning
 - e. Congenital adrenal hyperplasia

POST GRADUATE EXAMINATION, APRIL- 2012

MD PEDIATRICS

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagnosis.

- Q. 1.** Discuss the Pathophysiology, clinical manifestation, diagnosis and treatment including Recent Advances in a case of Heart failure. (20)
- Q. 2.** All that wheezes is not bronchial asthma. Discuss. (20)
Outline the management of bronchial asthma including recent advances. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Principles of SPECT & PET Scan and their uses in clinical practice.
 - b. MDR Tuberculosis
 - c. Febrile neutropenia and its management.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Insulin therapy
 - b. Stem cell therapy
 - c. Probiotics and prebiotics
 - d. Linezolid
 - e. Retinopathy of prematurity

POST GRADUATE EXAMINATION, MAY- 2013

**MD PEDIATRICS
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the respiratory physiology and its regulation in children, discuss pulmonary function testing and its application in pediatric practice. (20)
- Q. 2.** Discuss calcium homeostasis and management of vitamin D resistant rickets. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Deriphyllin
 - b. Cardinal principles of growth
 - c. Oto acoustic emission
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Cytogenetics
 - b. Hypernatremia
 - c. Rotavirus vaccine
 - d. Fetal hemoglobin
 - e. Clinical features of Kawasaki disease

POST GRADUATE EXAMINATION, MAY- 2013

MD PEDIATRICS

(PAPER TWO)

NEONATOLOGY & COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss classification, pathophysiology and management of neonatal seizures. (20)

Q. 2. List high risk neonates and discuss step wise care of newborn in the delivery room. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Adolescence turmoil
- b. Childhood abuse and neglect
- c. Indicators of child health

Q. Write short notes on: (5 x 6 = 30)

- a. Adoption
- b. Complications in a newborn of diabetic mother
- c. Vomiting in a neonate
- d. Child survival and safe motherhood programs
- e. Skin examination of newborn

POST GRADUATE EXAMINATION, MAY- 2013

MD PEDIATRICS

(PAPER THREE)

GENERAL PEDIATRICS & PEDIATRICS EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe patho-physiology, natural history, complications and management of gastro-esophageal reflux disease (GERD). (20)
- Q. 2.** Define "Chronic Kidney Disease". How is its severity staged? Describe patho-physiology of "Anemia of kidney disease". (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Warning signs of language problem.
 - b. Complications of dengue haemorrhagic fever.
 - c. Hypertrophic cardiomyopathy.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Recurrent hemiplegia
 - b. Adolescent immunization
 - c. Mushroom poisoning
 - d. Ewing sarcoma
 - e. Congenital chicken pox syndrome.

POST GRADUATE EXAMINATION, MAY- 2013

**MD PEDIATRICS
(PAPER FOUR)**

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss the components involved in hemostasis process. Describe the normal hemostasis and discuss in brief the management of haemorrhagic disease of newborn. (20)

Q. 2. How will you classify Juvenile Idiopathic Arthritis? Outline the diagnosis and management plan for Juvenile Rheumatoid Arthritis. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Translocations
- b. Leukotrine antagonists
- c. Organisms producing extended spectrum beta lactamase and management of infections caused by them.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Hyperoxia test
- b. Lysosomal storage disorders
- c. Bronchopulmonary dysplasia
- d. Hyper natremic dehydration
- e. Outline the management of ALL.

POST GRADUATE EXAMINATION, APRIL/MAY- 2014

MD PEDIATRICS

(PAPER ONE)

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe foetal circulation. Discuss pathophysiology of large VSD. (20)
- Q. 2.** Discuss embryonal basis of tracheo-esophageal fistula. Discuss various anatomical types of tracheo-esophageal fistula and discuss their management. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Importance of bone marrow examination in childhood diseases.
 - b. Pathology of idiopathic nephrotic syndrome.
 - c. Natural course of primary complex.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. WHO growth charts.
 - b. Antimalarial drugs and current therapy of malaria.
 - c. Peak expiratory flow rate in management of bronchial asthma.
 - d. Hyponatremia.
 - e. Pharmacological closure of PDA.

POST GRADUATE EXAMINATION, APRIL/MAY- 2014

MD PEDIATRICS

(PAPER TWO)

NEONATOLOGY & COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss various national programs related to control of nutritional deficiencies and disorders. (20)

Q. 2. Discuss clinical manifestations of diseases in the new born period. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Day 02 neonatal seizures.
- b. Immediate management of post asphyxiated newborn.
- c. Brachial plexus and its injury at birth.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Adoption
- b. Girl child
- c. Under five clinics
- d. Hemorrhagic disease of the new born.
- e. Customs and beliefs in child rearing.

POST GRADUATE EXAMINATION, APRIL/MAY- 2014

MD PEDIATRICS

(PAPER THREE)

GENERAL PEDIATRICS & PEDIATRICS EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. What is Rheumatic fever? Describe its pathophysiology and diagnostic criteria? How will you manage an 8 year old child with acute rheumatic carditis. (20)

Q. 2. What is aplastic anaemia? What are its causes and differential diagnosis? Also outline the management of a child with aplastic anaemia. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Management of status epilepticus.
- b. Management of acute exacerbation of bronchial asthma.
- c. Diabetes insipidus – how to diagnose?

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Duchenne Muscular dystrophy.
- b. Neuroblastoma.
- c. Management and followup of a child born to a hepatitis –B positive mother.
- d. Complications of diphtheria.
- e. Graves disease.

POST GRADUATE EXAMINATION, APRIL/MAY- 2014

MD PEDIATRICS

(PAPER FOUR)

RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe assessment of severity of acute asthma in children. Mention first line medications, their delivery and frequency for acute asthma by acute severity level. Write adjunctive therapies as well. (20)
- Q. 2.** Define "Reflex Anoxic Seizures". Describe approach and management of a child suffering from this type of seizure. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Serum procalcitonin in septic meningitis
 - b. Flow cytometry in hematological disorders.
 - c. Integrated management of Severe Acute Malnutrition (SAM).
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Mechanical circulatory support.
 - b. Voice disorder in children.
 - c. Measles control strategy in India.
 - d. Potential complications of foreign body ingestion.
 - e. Hematological parameters in predicting retinopathy of prematurity (ROP).

POST GRADUATE EXAMINATION, APRIL - 2015

MD PEDIATRICS

(PAPER ONE)

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe anatomical and physiological aspects of cerebro-spinal fluid (CSF) production and circulation. Discuss etiology and management of congenital hydrocephalus. **(20)**
- Q. 2.** Describe fluid and electrolyte changes in congenital hypertrophic pyloric stenosis. Discuss its management in preoperative phase. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Renal pathology in SLE.
 - b. Management of severe dehydration in severe acute malnutrition.
 - c. Role of zinc in pediatric practice.
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. ADHD
 - b. Cerebral salt wasting
 - c. Newer antiepileptics
 - d. Rota virus vaccines
 - e. Postnatal growth in small for gestational age (SGA) babies.

POST GRADUATE EXAMINATION, APRIL - 2015

MD PEDIATRICS

(PAPER TWO)

NEONATOLOGY AND COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

1. Write management of an asphyxiated newborn in the labor room and discuss hypoxic-Ischaemic encephalopathy. (20)
- Q. 2. Enumerate various National Health Programs and discuss programs related to nutritional deficiencies in detail. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Congenital Hypothyroidism.
 - b. Hemorrhagic disease of the newborn.
 - c. Prevention of vector borne diseases.
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Pulse polio programme.
 - b. Adoption
 - c. Management of an outbreak in a community
 - d. Child labour
 - e. Prevention of sexually transmitted diseases.

POST GRADUATE EXAMINATION, APRIL - 2015

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS, SYSTEMIC PEDIATRICS AND PEDIATRIC EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Approach a case of 02 year wheezy child. (20)

Q. 2. Approach a case of 10 year old child with joint pain. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Diabetic ketoacidosis
- b. Organophosphorus poisoning
- c. Iron over load

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Hurler syndrome
- b. Complication of pertusis
- c. Fragile X syndrome
- d. Congenital hip dislocation
- e. Kalazar

POST GRADUATE EXAMINATION, APRIL - 2015

**MD PEDIATRICS
(PAPER FOUR)**

RECENT ADVANCES IN PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe ROP screening and newer modalities for its treatment. **(20)**

Q. 2. Discuss revised IAP growth charts (2015) for height, weight and body mass index for 5-18 years old Indian children. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Predictors of mortality in neonates with meconium aspiration syndrome.
- b. IVIG in pediatric disorders.
- c. Effect of hypothermia on perinatal asphyxia.

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Pulse oximetry for screening of congenital heart diseases.
- b. Vitamin D and child health.
- c. Neurocognitive markers in autism.
- d. Treatment of hepatic encephalopathy.
- e. Diagnosis and treatment of gastro esophageal reflux disease (GERD).

POST GRADUATE EXAMINATION, MAY - 2016

**MD PEDIATRICS
(PAPER ONE)**

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Define Congestive heart failure. Discuss its Pathophysiology. Also outline its management. **(20)**

Q. 2. Describe the mechanism of haemostasis. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Bilirubin metabolism
- b. Theories of Nephrotic syndrome
- c. Water regulation by kidney

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Development of Atrial Septum
- b. Role of Zinc in paediatric practice
- c. Vitamin D metabolism
- d. CSF pathway
- e. Conjugate vaccines

X

POST GRADUATE EXAMINATION, MAY - 2016

**MD PEDIATRICS
(PAPER TWO)**

NEONATOLOGY AND COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** What is the status of Neonatal mortality in India? Enumerate causes of neonatal deaths and measures to reduce the neonatal mortality. (20)
- Q. 2.** Discuss the thermoregulation in newborn. How will you manage a case of severe hypothermia? (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Adolescent violence
 - b. Immunization in HIV +ve case.
 - c. PPHN in newborn
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Nosocomial infection in newborn
 - b. Adoption
 - c. IMNCI – principles
 - d. Physiology of lactation
 - e. Community based treatment of pneumonia

X

POST GRADUATE EXAMINATION, MAY - 2016

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS, SYSTEMIC PEDIATRICS AND PEDIATRIC EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe etiology of demyelinating disorders. Discuss the clinical features, diagnosis and management of a 4 year old child with ADEM. (20)
- Q. 2.** Describe the etiology, diagnosis and management of infantile cholestasis. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Approach to 1 year old infant with anemia.
 - b. Diagnosis of chronic diarrhoea.
 - c. Management of MDRTB in children.
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Supraventricular tachycardia
 - b. Point of case diagnostic tests for a febrile child.
 - c. Hypercyanotic spell
 - d. Atmoxetine
 - e. Prenatal diagnosis of trisomy 21

X

POST GRADUATE EXAMINATION, MAY - 2016

**MD PEDIATRICS
(PAPER FOUR)**

RECENT ADVANCES IN PEDIATRICS

[Max Marks: 100]

[Time allotted: Three hours]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the role of various hormones in somatic growth in intrauterine, extra uterine and adolescent period. (20)
- Q. 2.** Define Acute liver cell failure. Discuss the etiology and management including recent advances. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Indications for IVIG use in neonatal and Pediatric practice
 - b. Bioactive compounds in human milk
 - c. Stem cell therapy
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Neonatal Hypertension
 - b. Noninvasive Ventilation
 - c. Effects of Media on growing child
 - d. SLE nephritis
 - e. Congenital dislocation of hip

X

POST GRADUATE EXAMINATION, MAY - 2017

MD PEDIATRICS

(PAPER ONE)

BASIC SCIENCES AS APPLIED TO PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Describe the anatomical differences in airway of an infant and adolescent. Discuss the etiology and management of upper airway obstruction in an infant. (20)
- Q. 2.** Describe the utility of growth velocity curve in assessment of short stature. Discuss approach to a 5 year old child with short stature. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Management of hypernatremic dehydration
 - b. Dyslexia
 - c. Vitamin D resistant rickets.
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Injectable polio vaccine
 - b. SIADH
 - c. Anorexia nervosa
 - d. Anoxic spell
 - e. Pain management in children

X

POST GRADUATE EXAMINATION, MAY - 2017

MD PEDIATRICS

(PAPER TWO)

NEONATOLOGY AND COMMUNITY PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Discuss the etiology and clinical features of a child with Neonatal Cholestasis. Discuss the investigations and outline the treatment. (20)
- Q. 2.** Discuss the causes of respiratory distress in a newborn aged 6 hours. How will you prevent and manage a case of Hyaline Membrane Disease? (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Community based treatment of pneumonia
 - b. National nutrition programs
 - c. Nosocomial infections in NICU
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Child abuse
 - b. Adverse events following immunisation
 - c. Care of an infant born to a HIV positive mother
 - d. Role of Pediatrician in adopting a baby
 - e. Advantages of delayed cord clamping at birth. When should it be avoided?

X

POST GRADUATE EXAMINATION, MAY - 2017

**MD PEDIATRICS
(PAPER THREE)**

GENERAL PEDIATRICS, SYSTEMIC PEDIATRICS AND PEDIATRIC EMERGENCIES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

Q. 1. Describe incidence and characteristics of auto-immune hepatitis. Mention principles of treatment of this condition. (20)

Q. 2. Define 'Severe Acute Malnutrition (SAM)'. Write down its complications and management. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Leukemoid reaction
- b. Japanese encephalitis vaccination in India
- c. Breath holding spells

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Paracetamol for closure of patent ductus arteriosus
- b. Hypertonic saline for bronchiolitis
- c. Restless leg syndrome
- d. Screening for speech and language delay
- e. Hypercalcemia in children.

X

POST GRADUATE EXAMINATION, MAY - 2017

MD PEDIATRICS

(PAPER FOUR)

RECENT ADVANCES IN PEDIATRICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

Q. 1. Write advances in molecular genetics and changing strategies in diagnosis, prevention and treatment of Duchenne Muscular dystrophy. **(20)**

Q. 2. Discuss the aetiopathogenesis, clinical features and management of a case of cerebral palsy including recent advances. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**

- a. Stem cell therapy
- b. Indications for liver transplant
- c. PAL's algorithm for a sick child

Q. 4. Write short notes on: **(5 x 6 = 30)**

- a. Congenital hypothyroidism
- b. Eneuresis
- c. Breast milk jaundice
- d. Neonatal hypertension
- e. Complications of ventriculo-peritoneal shunt

X