

M.B.B.S. [1st Prof.]

BF/2008/11

Anatomy – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions. Illustrate your answers with suitable diagrams.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Describe TONGUE under the following headings:**
 - a. Extrinsic muscles. [3]
 - b. Nerve supply. [2]
 - c. Applied anatomy. [2]
2. **Write short notes on:**
 - a. Radio ulnar joints. [3]
 - b. Internal capsule. [3]
 - c. Ansa Cervicalis. [3]
3. **Draw labeled diagrams to illustrate:**
 - a. Structures in the floor of IVth ventricle. [3]
 - b. Branches of brachial plexus. [3]
 - c. Histological structure of Cerebellum. [3]

Part – II

4. Describe the origin, course and relations of Lt. Axillary artery. Name its branches. [8]
 5. **Write short notes on:**
 - a. Epiphysis. [3]
 - b. Cavernous sinus. [3]
 - c. Yolk Sac. [3]
 6. **Enumerate the following:**
 - a. Tributaries of Internal jugular vein. [2]
 - b. Skeletal derivatives of IIIrd branchial arch. [2]
 - c. Muscles supplied by Axillary nerve. [2]
 - d. Structures transmitted through foramen spinosum. [2]
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M.B.B.S. [1st Prof.]

BF/2008/11

Anatomy – B

M.M. : 50

Time : 3 Hours

*Note : Attempt all questions. Answer all parts of one question in sequence.
Illustrate your answers with suitable diagrams.*

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Write short notes on:**
 - a. Development of Pancreas. [3]
 - b. Femoral triangle. [3]
 - c. Lumbar plexus. [3]
2. **Enumerate:**
 - a. Muscles supplied by deep peroneal nerve. [2]
 - b. Branches of inferior mesenteric artery. [2]
 - c. Planter flexors of foot. [2]
3. **Describe briefly:**
 - a. Supports of Uterus. [5]
 - b. Graffian follicle. [5]

Part – II

4. **Draw labeled diagrams to show:**
 - a. Microanatomy of Liver. [3]
 - b. Relations of anterior surface of Left Kidney. [3]
 - c. Relations of mediastinal surface of Left lung. [3]
 5. **Describe briefly:**
 - a. Klinefelter syndrome. [4]
 - b. Dorsal venous arch of foot. [4]
 6. **Write short notes on:**
 - a. Azygos vein. [4]
 - b. Anal canal. [4]
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M.B.B.S. [1st Prof.]

BF/2008/11

Physiology – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Describe Parkinson's disease. Give physiological basis of its treatment. [10]
2. Write notes on:
 - a. Hypothyroidism. [4]
 - b. Bone remodelling. [3]
3. Explain briefly:
 - a. Myasthenia gravis. [4]
 - b. Oxygen debt. [4]

Part – II

4. Draw well labeled diagram of:
 - a. Muscle spindle and give its functions. [6]
 - b. Compound action potential. [4]
5. Describe briefly:
 - a. Hormonal regulation of menstrual cycle. [4]
 - b. Functions of Testosterone. [3]
6. Write notes on:
 - a. Active transport. [2]
 - b. Presbyopia. [2]
 - c. HCG [Human Chorionic Gonadotrophin] [2]
 - d. Saltatory conduction. [2]

M.B.B.S. [1st Prof.]

BF/2008/11

Physiology – B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

Illustrate your answers with suitable diagrams & graph.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Define Blood pressure. Discuss the immediate response of the body to a sudden fall in blood pressure. [2+8=10]
2. **Write short notes on:**
 - a. Regulation of Erythropoiesis. [4]
 - b. Humoral immunity. [3]
3. **Write in brief:**
 - a. Functions of bile. [4]
 - b. Intestinal motility. [4]

Part – II

4. **Write short notes on:**
 - a. Pulmonary surfactant. [4]
 - b. Oxygen-Haemoglobin dissociation curve. [5]
 5. **Write in short:**
 - a. Osmotic diuresis. [4]
 - b. Inulin clearance test. [4]
 6. **Write in short:**
 - a. Normal ECG. [4]
 - b. Transport of CO₂ in blood. [4]
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M.B.B.S. [1st Prof.]

BF/2008/11

Biochemistry – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Write briefly:**
 - a. Biochemical role of Vitamin-D. [2]
 - b. Co-enzyme function of Niacin. [2]
 - c. High energy compounds. [2]
 - d. Structure of Immunoglobuline. [2]
2. **Discuss:**
 - a. Ketogenesis & Ketosis. [4]
 - b. Outline Fatty acid synthesis with regulation. [4]
3. **Write short notes on:**
 - a. Apoproteins and their importance. [3]
 - b. Biomedical importance of essential fatty acids. [3]
 - c. Importance of Glucose tolerance test. [3]

Part – II

4. **Give brief account of:**
 - a. Biochemical defect & consequences in Phenylketonuria. [3]
 - b. Transamination reactions. [3]
 - c. Oxygen dissociation curves of haemoglobin and myoglobin. [3]
 5. **Discuss:**
 - a. Outline Krebs's cycle. Give its regulation. [4]
 - b. Formation of specialized products from Glycine. [4]
 6. **Write short notes on:**
 - a. Importance of HMP shunt. [2]
 - b. Role of Glutathione. [3]
 - c. Glycogen storage diseases. [3]
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Biochemistry – B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Discuss the Watson Crick model of structure of DNA and mention the features of Z-DNA. [8]
2. **Write short notes on:**
 - a. Metabolic acidosis. [3]
 - b. Eukaryotic primary transcript. [3]
 - c. TLC. [3]
3. **Discuss in brief:**
 - a. Thyroid function tests. [4]
 - b. Gout. [4]

Part – II

4. What is PCR[Polymerase Chain Reaction] technology? Outline the principle of various steps and give its uses. [8]
 5. **Write short notes on:**
 - a. Role of copper in the body. [3]
 - b. DNA library. [3]
 - c. Lesch Nyhan syndrome. [3]
 6. **Discuss in brief:**
 - a. Features of genetic code. [4]
 - b. Nucleosome. [4]
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M.B.B.S. [2nd Prof.]

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Pathology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions

Draw labeled diagrams wherever necessary..

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Discuss etiopathogenesis, classification and staining characteristics with morphological features of Amyloidosis. [2+2+2+2=8]
2. **Write short notes on:** [3x2=6]
 - a. Dysplasia.
 - b. Tumour markers.
 - c. Type IV hypersensitivity.
3. **Tabulate the differences between:** [3x2=6]
 - a. Metastatic and Dystrophic calcification.
 - b. Primary and Secondary healing.
 - c. Dry and Moist gangrene.

Part - II

4. Discuss etiopathogenesis, clinical features and laboratory diagnosis of Megaloblastic anaemia. [8]
5. **Write short notes on:** [3x2=6]
 - a. Erythroblastosis foetalis.
 - b. Osmotic fragility.
 - c. Sideroblastic anaemia.
6. **Describe and draw labeled (PBF & B.M.) diagrams for laboratory diagnosis of following:** [2x3=6]
 - a. Iron deficiency anaemia.
 - b. Haemolytic anaemia.

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Pathology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

Draw labeled diagrams wherever needed.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Discuss about etiology, pathogenesis and morphological features of Colorectal carcinoma. [8]
2. **Write briefly on:**
 - a. Sequelae of portal hypertension. [3]
 - b. Major risk factors in atherosclerosis. [3]
3. **Write contrasting features of:**
 - a. Bronchopneumonia Versus Lobar Pneumonia. [3]
 - b. Vegetations of RHD and bacterial endocarditis. [3]

Part - II

4. **Write short notes on:**
 - a. Polycystic kidney disease. [3]
 - b. Classification of testicular tumours. [3]
 5. **Write briefly on:**
 - a. Goitre. [3]
 - b. Diagnosis of diabetes mellitus. [3]
 6. **Comment on:**
 - a. Cervical Intraepithelial Neoplasia [CIN] [4]
 - b. Osteoclastoma. [4]
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M.B.B.S. [2nd Prof.]

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Microbiology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Write short notes on:**
 - a. Pasteurization. [3]
 - b. Turbido stat. [2]
2. **Describe briefly the following:**
 - a. Delayed hypersensitivity reaction. [4]
 - b. Complement fixation test. [4]
3. **Write Briefly on:**
 - a. Bacterial flagella. [3]
 - b. Blood culture method. [4]

Part - II

4. Describe the pathogenesis and laboratory diagnosis of Diphtheria. [5+5]
 5. **Write short notes on:**
 - a. Serological test for enteric fever. [2½]
 - b. Satelitism. [2½]
 6. **Write short notes on:**
 - a. Modes of infection in brucellosis. [2½]
 - b. Gonorrhoea. [2½]
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M.B.B.S. [2nd Prof.]

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Microbiology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Enumerate Parasites found in blood. Describe the human life cycle of *P. Vivax*. [8]
2. **Write short notes on:**
 - a. Cryptosporidiosis. [3]
 - b. Post kala azar dermal Leishmaniasis. [3]
3. **Write briefly on:**
 - a. *Enterobius Vermicularis*. [3]
 - b. Hydatid disease. [3]

Part - II

4. What is Bacteriophage. Outline its life cycle. What is its significance in clinical microbiology? [8]
 5. **Write briefly on:**
 - a. Immunoprophylaxis against Hepatitis B virus. [3]
 - b. Congenital viral infections. [3]
 6. **Write short notes on:**
 - a. Candidiasis. [3]
 - b. Dimorphic fungi. [3]
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M.B.B.S. [2nd Prof.]

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Pharmacology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Describe the pharmacotherapy of Bronchial asthma. [6]
2. Write short notes on the followings: [4x2=8]
 - a. Naltrexone.
 - b. Alprazolam.
 - c. Atropine substitute.
 - d. Selegiline.
3. Classify Antihistaminics. Describe important actions, therapeutic uses and adverse effects of newer antihistaminics. [6]

Part - II

4. Write short notes on: [4x2=8]
 - a. G-Protein coupled receptors.
 - b. First pass metabolism.
 - c. Prodrugs.
 - d. Physiological or functional antagonism.
 5. Describe the pharmacological basis of the use of the following drugs along with important adverse effects: [3x2=6]
 - a. Imipramine in depression.
 - b. Lignocaine as local anaesthetics.
 - c. Morphine in acute left ventricular failure.
 6. Write an account of: [3x2=6]
 - a. Contraindications of non selective beta adrenergic receptor blockers.
 - b. Fluoxetine.
 - c. Spinal anaesthesia.
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M.B.B.S. [2nd Prof.]

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Pharmacology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Write treatment of Myocardial infarction and side effects of drugs used. [8]
2. **Write briefly on:** [2x3=6]
 - a. Urokinase.
 - b. Captopril.
3. **Write briefly on:** [2x3=6]
 - a. Treatment of Trichomoniasis.
 - b. Myxoedema coma.

Part - II

4. Write treatment of multibacillary Leprosy and side effects of drugs used. [8]
 5. **Write briefly on:** [2x3=6]
 - a. Methotrexate.
 - b. Antipseudomonal penicillins.
 6. **Write briefly on:** [2x3=6]
 - a. Chloroxylonol.
 - b. Bacterial conjunctivitis.
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M.B.B.S. [2nd Prof.]

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Forensic Medicine

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part – I

1. What are different modes of death. Describe how will you calculate postmortem interval in a dead body. [6]
2. **Describe in brief:**
 - a. Medicolegal importance of age. [3]
 - b. Privileged communication. [3]
 - c. Expert witness. [2]
3. **Differentiate between the following:**
 - a. Wound of entry and wound of exit in a firearm. [3]
 - b. Ligature mark of Hanging and Strangulation. [3]

Part – II

4. Classify Sexual offences. Describe in detail the examination of a 16 years old victim of alleged rape. [7]
 5. Write down mechanism of action, symptoms and signs, fatal dose and management of Alphas poisoning. [7]
 6. **Write in brief on:**
 - a. Criminal responsibility of a mentally ill person. [3]
 - b. Treatment of Paracetamol poisoning. [3]
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M.B.B.S. [Final Prof.(Part –I)]

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Ophthalmology

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

Use Separate Answer Sheet for Each Part.

Part - I

Write short notes on:

1. Structure of eyelid. [5]
2. Ophthalmia neonatorum. [5]
3. Pre-corneal tear film. [5]
4. Orbital cellulitis. [5]

Part - II

Describe the following:

5. Lens induced glaucoma. [5]
 6. Astigmatism. [5]
 7. Retinitis pigmentosa. [5]
 8. Sequelae and complications of Anterior uveitis. [5]
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M.B.B.S. [Final Prof.(Part –I)]

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E.N.T.

M.M. : 40

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheet for Each Part.*

Part - I

1. Describe the aetiopathogenesis, clinical features and management of secretory Otitis Media. [6]
2. **Write notes on:**
 - a. Left vocal cord palsy. [4]
 - b. Septoplasty. [4]
3. **Draw a labeled diagram of:**
 - a. Kiesselbach's plexus. [3]
 - b. Organ of Corti. [3]

Part – II

4. Describe the aetiopathogenesis, clinical features and management of Carcinoma Larynx [T₃N₀M₀]. [6]
 5. **Write notes on:**
 - a. Bell's Palsy. [4]
 - b. Rhinoscleroma. [4]
 6. **Enumerate the causes of:**
 - a. Bleeding from nasal cavity. [3]
 - b. Dysphagia. [3]
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M.B.B.S. [Final Prof.(Part –I)]

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Community Medicine - I

M.M. : 60

Time : 3 Hours

Note : Attempt all questions.

Use Separate answer sheets for each part.

Part - I

1. **Describe briefly:**
 - a. Epidemiological triad. [5]
 - b. Measures of central tendency. [5]
2. **Write short notes on:**
 - a. Spectrum of Health. [5]
 - b. Causal association. [5]
3. **Write briefly, giving examples:**
 - a. Immunoprophylaxis. [5]
 - b. Time trends in disease. [5]

Part - II

4. **Describe following at household level:**
 - a. Water purification. [5]
 - b. Mosquito control. [5]
 5. **Write short notes on:**
 - a. Oral hygiene. [5]
 - b. Maternity benefit under ESI act. [5]
 6. **Discuss the role of following in health and disease:**
 - a. Family. [5]
 - b. Balanced diet. [5]
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M.B.B.S. [Final Prof.(Part –I)]

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Community Medicine– II

M.M. : 60

Time : 3 Hours

Note : Attempt all questions.

Use Separate answer sheets for each part.

Part - I

1. **Write short notes on:**
 - a. Functions of Family. [5]
 - b. Endemic Fluorosis. [5]
2. **Write short notes on:**
 - a. Voluntary health agencies. [5]
 - b. Functions of Primary health centre. [5]
3. **Write short notes on:**
 - a. Methods of health education. [5]
 - b. Basic principles of immunization. [5]

Part - II

4. **Write short notes on:**
 - a. Role of health education in health programme. [5]
 - b. Prevention of Tetanus neonatorum. [5]
 5. **Write with examples:**
 - a. Perinatal mortality. [5]
 - b. Emergency contraception. [5]
 6. **Write short notes on:**
 - a. Hospital waste management. [5]
 - b. Surveillance cycle. [5]
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M.B.B.S. [Final Prof.(Part –II)]

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Medicine - I

M.M. : 60

Time : 3 Hours

*Note : Attempt all questions.
Use separate answer sheets for Each Part.*

Part – I

1. Describe clinical features, investigations and treatment of Thyrotoxicosis. [10]
2. **Write short notes on:**
 - a. Idiopathic Thrombocytopenic Purpura. [5]
 - b. Management of Acute Myocardial infarction. [5]
3. **Discuss briefly:**
 - a. Aetiology of Secondary hypertension. [5]
 - b. Drug treatment of Peptic Ulcer. [5]

Part – II

4. Discuss classification, etiology and management of Epilepsy. [10]
5. **Write notes on:**
 - a. Aluminium Phosphide poisoning. [5]
 - b. Infective Endocarditis prophylaxis. [5]
6. **Discuss briefly:**
 - a. Chronic myeloid leukemia. [5]
 - b. Complications of Cirrhosis. [5]

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- ## Part – I

M.B.B.S. [Final Prof.(Part –II)]

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Surgery- A *[Including Orthopedics]*

M.M. : 60

Time : 3 Hours

*Note : Attempt all questions.
Use Separate Answer Sheets for each Part.*

Part -I

1. What is Sterilization. What are the various methods of sterilization applicable in operation theatre. [10]
2. **Write short notes on:**
 - a. Damage control surgery. [5]
 - b. Cystic hygroma. [5]
 - c. Carbuncle. [5]
 - d. Epithelioma. [5]

Part –II **[Orthopaedics]**

1. **Write short notes on:**
 - a. Chronic Osteomyelitis. [7]
 - b. Sudeck's dystrophy. [3]
 2. Describe in detail the aetiopathogenesis and management of Non Union of Fractures. [10]
 3. **Write short notes on:**
 - a. Congenital dislocation of Hip. [5]
 - b. Colle's fracture. [5]
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Surgery- B

M.M. : 60

Time : 3 Hours

*Note : Attempt all questions.
Use separate answer sheets for each part.*

Part – I

1. Describe clinical features, staging and management of Carcinoma breast. [10]
2. **Write short notes on:**
 - a. Hyperparathyroidism. [4]
 - b. Cervical rib. [3]
 - c. Pneumothorax. [3]
3. **Discuss briefly:**
 - a. Mixed Parotid tumour. [4]
 - b. Achlasia cardia. [3]
 - c. CABG [Coronary Artery Bypass Grafting]. [3]

Part – II

4. Describe etiology, clinical features and management of Carcinoma Stomach. [10]
 5. **Write short notes on:**
 - a. Pseudocyst Pancreas. [4]
 - b. Triage. [3]
 - c. Undescended testis. [3]
 6. **Discuss briefly:**
 - a. Subdural haematoma. [4]
 - b. MRCP. [3]
 - c. Epidural anaesthesia. [3]
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M.B.B.S. [Final Prof.(Part –II)]

BF/2008/11

Obstetrics & Gynaecology- I

M.M. : 40

Time : 3 Hours

*Note : Attempt all questions.
Use separate answer sheets for each part.*

Part – I

1. **Write notes on:**
 - a. Partogram. [5]
 - b. Active management of 3rd stage of labour. [5]
2. Define Antepartum Haemorrhage. How will you differentiate abruptio placentae from placenta praevia bleeding. [10]

Part – II

3. **Write notes on:**
 - a. Haematological changes in pregnancy. [5]
 - b. Breast feeding. [5]
 4. **Write notes on:**
 - a. Preterm labour. [5]
 - b. Preterm premature rupture of membranes. [5]
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M.B.B.S. [Final Prof.(Part –II)]

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Obstetrics & Gynaecology- II

M.M. : 40

Time : 3 Hours

*Note : Attempt all questions.
Use separate answer sheets for each part.*

Part – I

1. How will you investigate an infertile couple ? [5]
2. Write on Senile Vulvo-Vaginitis. [5]
3. What is incontinence & discuss stress incontinence ? [5]
4. Write short note on Carcinoma body of Uterus. [5]

Part – II

5. Discuss investigation and management of a case of white discharge & pain abdomen. [5]
 6. How do you manage dysmenorrhoea in a young girl ? [5]
 7. Describe pathophysiology of Scanty and irregular cycles in an obese infertile woman. [5]
 8. Discuss causes, investigations and differential diagnosis of suprapelvic mass in menorrhagic women. [5]
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M.B.B.S. [Final Prof.(Part –II)]

BF/2008/11

Paediatrics

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

Use Separate Answer Sheets for Each Part.

Part - I

Write notes on:

1. Feeding of Low birth weight neonate. [5]
2. Classification of Protein Energy Malnutrition and management of severe malnutrition. [5]
3. Complications of Diphtheria. [5]
4. Management of a child with Acute severe Asthma. [5]

Part – II

5. Aetiology, diagnosis and management of Acute pyogenic meningitis. [5]
 6. Diagnosis of Respiratory Distress Syndrome and its management. [5]
 7. Conjugate vaccines. [5]
 8. Nocturnal enuresis. [5]
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