

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

BF/2008/07

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 PAROTID GLAND under the following headings:**
 - a. Capsule. [1]
 - b. Relations. [2]
 - c. Structures traversing the gland. [2]
 - d. Applied anatomy. [2]

2. **Write short notes on:**
 - a. Lymphatic drainage of breast. [3]
 - b. Nasal septum. [3]
 - c. Floor of IVth ventricle. [3]

3. **Draw and label:**
 - a. Transverse section of midbrain at the level of inferior Colliculus. [3]
 - b. Contents and boundaries of Cubital fossa. [3]
 - c. Histology of Pituitary gland. [3]

Part – II

4. Describe briefly formation, branches and applied anatomy of Brachial Plexus. [8]

5. **Write short notes on:**
 - a. Third ventricle. [3]
 - b. Ossification of bones. [3]
 - c. Chorionic Villi. [3]

6. **Enumerate the following:**
 - a. Paired dural venous sinuses. [2]
 - b. Derivatives of neural crest. [2]
 - c. Components of Limbic system. [2]
 - d. Branches of axillary artery. [2]

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Anatomy – B

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. **Write short notes on:**
 - a. Coronary circulation. [3]
 - b. Trendelenburg test. [3]
 - c. Porto-caval anastmosis. [3]

2. **Enumerate:** [4x 1½=6]
 - a. Developmental components of inferior vena cava.
 - b. Muscles supplied by deep branch of lateral plantar nerve.
 - c. Contents of broad ligament of Uterus.
 - d. Muscles causing inversion and eversion with their nerve supply.

3.
 - a. Describe Urinary bladder. [5]
 - b. Spermatogenesis. [5]

Part – II

4. **Draw labeled diagrams to show:** [5x2=10]
 - a. Microanatomy of testis.
 - b. Visceral surface of Liver.
 - c. Ischiorectal fossa.
 - d. Microanatomy of Lung.
 - e. Adductor canal.

 5. **Describe briefly on:** [3x 2½=7½]
 - a. Down's syndrome.
 - b. Prostate.
 - c. Medial longitudinal arch of foot.

 6. **Give anatomical basis of:** [3x 2½=7½]
 - a. Caput Medussae.
 - b. Tracheo Oesophageal fistula.
 - c. Referred pain to tip of right shoulder.
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Physiology – A

M.M. : 50

Time : 3 Hours

*Note : Attempt all questions.
USE SEPARATE ANSWER SHEET FOR EACH PART.*

Part - I

1. Describe the functions of Cerebellum. [10]

2. **Write notes on:**
 - a. Actions of Oxytocin. [4]
 - b. Rickets. [3]

3. **Explain briefly:**
 - a. Refractory period. [4]
 - b. Graded potential. [4]

Part – II

4. **Draw well labeled diagram of:**
 - a. Cross section of the Spinal cord showing location and functions of major ascending tracts. [5]
 - b. Relation between action potential and tension in visceral smooth muscle. [5]

 5. **Describe briefly:**
 - a. Vasectomy. [4]
 - b. Cryptorchidism. [3]

 6. **Write notes on:**
 - a. Intercellular communication. [2]
 - b. Taste adaptation. [2]
 - c. Rinne test. [2]
 - d. Photosensitive pigment. [2]
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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 Cardiac cycle. Describe mechanical events (pressure and volume changes) of left heart in Cardiac cycle. [2+8]
2. **Write short notes on:**
 - a. Polycythemia. [2]
 - b. Structure and functions of Hemoglobin. [5]
3. **Write in brief:**
 - a. Name the Salivary glands. [2]
 - b. Composition of Gastric juice. [3]
 - c. Functions of gall bladder. [3]

Part – II

4. **Write short notes on:**
 - a. Minute ventilation. [2]
 - b. Pulmonary circulation. [5]
 - c. Pleura. [2]
 5. **Write in short:**
 - a. Nephron. [4]
 - b. G.F.R. [4]
 6. **Write in short:**
 - a. Blood pressure. [4]
 - b. PCV [4]
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Biochemistry – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Write briefly about:**
 - a. Role of Vitamin E as anti-oxidant. [2]
 - b. Regulation of cholesterol biosynthesis. [2]
 - c. Competitive inhibition of enzyme activity. [2]
 - d. Biochemical defect and consequences of Galactosaemia. [2]

2. **Answer briefly:**
 - a. Role of folic acid in one carbon metabolism. [4]
 - b. Pathogenesis of fatty liver. [4]

3. **Write short notes on:**
 - a. Role of isoenzymes in clinical diagnosis. [3]
 - b. Reciprocal regulation of Glycogenesis and Glycogenolysis. [3]
 - c. Role of hemoglobin as buffer. [3]

Part – II

4. **Explain briefly:**
 - a. Structure of elastin. [3]
 - b. Secondary structure of proteins. [3]
 - c. Role of Glycine in body. [3]

 5.
 - a. Discuss biochemical role of Methionine and inborn errors associated with it. [4]
 - b. Explain role of HDL in reverse Cholesterol transport. [4]

 6. Define Gluconeogenesis. Outline steps involved in this pathway and add a note on regulation of Gluconeogenesis. [8]
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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 regulation of Gene expression using Lac operon. [8]

2. **Write short notes on:**
 - a. Mutations. [3]
 - b. Metabolic acidosis. [3]
 - c. Transaminases. [3]

3. **Discuss briefly:**
 - a. Thyroid function tests. [4]
 - b. Significance of Iron containing compounds in body. [4]

Part – II

4.
 - a. Give diagnostic importance of Radioisotopes. [4]
 - b. Discuss briefly Dehydration. [4]

 5. **Write short notes on:**
 - a. Electrophoresis. [3]
 - b. Wilson's disease. [3]
 - c. Role of folate in purine synthesis. [3]

 6. **Discuss briefly:**
 - a. Various inhibitors of Translation. [4]
 - b. Write salient features of genetic code. [4]
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Pathology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. Discuss in detail Vascular phenomena in Inflammation. [8]
2. Write short notes on:
 - a. Fibrinoid necrosis. [3]
 - b. Calcification. [3]
3. Discuss briefly:
 - a. Chemical carcinogenesis. [3]
 - b. Type-III hypersensitivity reaction. [3]

Part - II

4. Discuss the etiology, pathogenesis, clinical features and laboratory diagnosis of Haemolytic anaemia. [2+2+2+2=8]
 5. Write short notes on:
 - a. Pancytopenia. [2]
 - b. Sub-Leukaemic Leukaemia. [2]
 - c. L.E. Cell phenomenon. [2]
 6. Comment on:
 - a. Leucoerythroblastic reaction. [3]
 - b. Myeloproliferative disorders. [3]
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Pathology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Draw labeled diagrams wherever needed.

Part - I

1. Discuss briefly about Cardiac vegetations and their clinical significance. [8]
2. **Write briefly on:**
 - a. Hashimoto's thyroiditis. [3]
 - b. Ewing's sarcoma. [3]
3. **Differentiate between:**
 - a. Centriacinar and Panacinar Emphysema. [3]
 - b. Primary tuberculosis and Secondary tuberculosis. [3]

Part - II

4. **Write short notes on:**
 - a. Diabetic nephropathy. [3]
 - b. Cirrhosis. [3]
 5. **Write briefly on:**
 - a. Dysgerminoma. [3]
 - b. Fibroadenoma. [3]
 6. **Write short notes on:**
 - a. Complications of Atheromatous Plaque. [4]
 - b. Role of Helicobacter pylori in Gastrointestinal disorders. [4]
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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. Classify Benzodiazepines and describe their mechanisms of action and therapeutic uses. [6]
2. Classify drugs used in Myasthenia Gravis and describe the management of the same. [6]
3. Write short notes on: [4x2=8]
 - a. Sumatryptan.
 - b. Omeprazole.
 - c. Acetazolamide.
 - d. Bioavailability.

Part - II

4. Classify Preanaesthetic medications giving justification of their use. [6]
 5. Define with examples: [4x1¹/₂=6]
 - a. Supra additive synergism.
 - b. Physiological Antagonism.
 - c. First dose phenomenon.
 - d. Diffuse hypoxia.
 6. Write an account of: [4x2=8]
 - a. Morphine de-addiction
 - b. Sodium valproate.
 - c. Flumezinil.
 - d. Baclofen.
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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. State the clinical indications of Beta Adrenoceptor blocking drugs in Cardio-vascular diseases and how presence of Diabetes Mellitus may make their use hazardous. [8]
2. Write briefly on: [4x2=8]
 - a. Pharmacological effects of Oxytocin.
 - b. Betablocker use in Glaucoma.
 - c. Drug interactions involving Vitamin B₆.
 - d. Streptokinase.
3. Elaborate on effects of Insulin on metabolism. [4]

Part - II

4. Discuss the role of Renin-angiotensin mechanism in antihypertensive therapy. [8]
5. Write briefly on: [3x2=6]
 - a. Adverse consequences of topical antibiotic use.
 - b. Treatment of Methicillin resistant staphylococcus infection.
 - c. Mechanism of antiviral action of Zidovudin.
6. Describe the post menopausal hormone replacement therapy and state the contraindications. [6]

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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. Capsule. [2]
 - b. Bacterial growth curve. [3]
 - c. Transport medium. [2]

2. **Write briefly on:**
 - a. Contribution of Louis Pasteur. [4]
 - b. Autoclave. [3]

3. **Write short notes on:**
 - a. Cytokines. [3]
 - b. Serum Sickness. [3]

Part - II

4. Name the causative agents of UTI. Discuss the laboratory diagnosis of UTI in detail. [8]

 5. **Write short notes on:**
 - a. Schick test. [3]
 - b. Clostridium difficile. [3]

 6. **Write short notes on:**
 - a. Koch's phenomenon. [3]
 - b. Kauffman white scheme. [3]
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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 causing anaemia in man. Describe the life cycle, pathogenesis and laboratory diagnosis of one such nematode. [8]
2. **Write short notes on:**
 - a. Tropical Pulmonary Eosinophilia. [2]
 - b. Extra intestinal lesions of Entamoeba histolytica. [2]
 - c. Enterobius Vermicularis. [2]
3. **Write briefly on:**
 - a. Peripheral blood smear picture in Plasmodium vivax infection. [3]
 - b. Cysticercosis in man. [3]

Part - II

4. What are Arbo viruses. Discuss the various Arbo viral diseases found in India. [8]
 5. **Write brief on:**
 - a. Strategies of HIV testing in India. [2]
 - b. Polio vaccines. [2]
 - c. Viral inclusion bodies. [2]
 6. **Write short notes on:**
 - a. Mycotic Mycetoma. [3]
 - b. Opportunistic fungal infections. [3]
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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. Define drowning. Name various types of drowning and causes of death. Describe postmortem findings in a case of typical drowning. [6]
2. Describe in brief:
 - a. Functions of Medical Council of India. [3]
 - b. Restraint of an Insane person. [3]
 - c. Magistrate's inquest. [2]
3. Write short notes on:
 - a. Traumatic Asphyxia. [3]
 - b. Grievous injuries. [3]

Part - II

4. Define Infanticide. Give its causes. Describe signs of live birth baby. [7]
 5. Describe general line of treatment in a case of suspected poisoning. [7]
 6. Write in brief on:
 - a. M.T.P. act of 1971. [3]
 - b. Treatment of Organophosphorus poisoning. [3]
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M.B.B.S. [Final Prof.(Part -I)]
BF/2008/05

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. Fungal Keratitis. [5]
2. Lacrimal Sac (Anatomy). [5]
3. Metabolic cataract. [5]
4. Primary Narrow Angle Glaucoma. [5]

Part - II

Describe:

5. Hypertensive Retinopathy. [5]
 6. Corneal blindness. [5]
 7. Hypermetropia. [5]
 8. Granulomatous Uveitis. [5]
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M.B.B.S. [Final Prof.(Part -I)]
BF/2008/05

E.N.T.

M.M. : 40

Time : 3 Hours

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

Part - I

1. Write about the aetiopathogenesis, clinical features and management of Acute Tonsillitis. [6]
2. Write notes on:
 - a. Rhinosporodiosis. [4]
 - b. Adenoid facies. [4]
3. Draw labeled diagram of:
 - a. Medial wall of middle ear. [3]
 - b. Lateral wall of Nasal cavity: [3]

Part - II

4. Write about the aetioipathogenesis and management of Acute Otitis media. [6]
 5. Write notes on:
 - a. Presbyacosis. [4]
 - b. Nasal septal perforation. [4]
 6. Write notes on:
 - a. Myringotomy. [3]
 - b. Little's area. [3]
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M.B.B.S. [Final Prof.(Part -I)]

BF/2008/05

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. Iceberg phenomenon of disease. [5]
 - b. Normal Curve. [5]
2. **Write short notes on:**
 - a. Randomised control trials. [5]
 - b. Pneumoconiosis. [5]
3. **Write differences between:**
 - a. Live and Killed Vaccines. [5]
 - b. Case Control and Cohort studies. [5]

Part - II

4. **Describe briefly:**
 - a. Vit. A prophylaxis programme. [5]
 - b. E.S.I. [5]
 5. **Write short notes on:**
 - a. Residual Chlorine. [5]
 - b. Indicators of Air Pollution. [5]
 6. **Write in brief:**
 - a. Personal Hygiene. [5]
 - b. Genetic Counselling. [5]
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M.B.B.S. [Final Prof.(Part -I)]
BF/2008/05

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. Family life cycle. [5]
 - b. Health related millennium development goals in India. [5]
2. Write short notes on:
 - a. Principles of Health education. [5]
 - b. National nutritional Anaemia prophylaxis programme. [5]
3. Write short notes on:
 - a. Under - 5 mortality rate. [5]
 - b. Contraception and adolescence. [5]

Part - II

4. Write short notes on:
 - a. Age pyramid of India. [5]
 - b. Vision 2020: The right to sight. [5]
 5. Write short notes on:
 - a. Malaria control through Primary health care. [5]
 - b. Risk approach in antenatal care. [5]
 6. Write short notes on:
 - a. Domestic accidents. [5]
 - b. Strategy for Polio eradication in India. [5]
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M.B.B.S. [Final Prof.(Part –II)]
BF/2008/05

Medicine - I

M.M. : 60

Time : 3 Hours

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

Part - I

1. Describe the aetiology, clinical features and treatment of Acute Myocardial Infarction. [10]
2. **Write notes on:**
 - a. Petit Mal Epilepsy. [5]
 - b. Myxoedema Coma. [5]
3. **Write briefly on:**
 - a. Traveller's Diarrhoea. [5]
 - b. Iron Deficiency anaemia. [5]

Part - II

4. Discuss the complications and treatment of Acute Pancreatitis. [10]
 5. **Write notes on:**
 - a. Organophosphorus poisoning. [5]
 - b. Angioedema. [5]
 6. **Discuss briefly:**
 - a. Causes and treatment of Atrial fibrillation. [5]
 - b. Interferons. [5]
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M.B.B.S. [Final Prof.(Part -II)]

BF/2008/05

Medicine - II

M.M. : 60

Time : 3 Hours

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

Part - I

1. a. Discuss clinical features and treatment of Cerebral Malaria. [5]
b. Discuss clinical features and treatment of Hodgkin's Lymphoma. [3]
2. **Write short notes on:**
 - a. Chronic bronchitis. [3]
 - b. DOTS. [4]
 - c. Barbiturate poisoning. [4]
3. **Discuss briefly:**
 - a. Peritoneal dialysis. [4]
 - b. Scurvy. [4]
 - c. Scrub Typhus. [3]

Part - II

4. **Write notes on:**
 - a. Seborrhoeic Dermatitis. [4]
 - b. Scabies. [3]
 - c. Tuberculoid Leprosy. [3]
 5. **Describe briefly:**
 - a. Paranoid Schizophrenia. [4]
 - b. Anxiety neurosis. [4]
 - c. Electro Convulsive therapy. [4]
 6. **Write short notes on:**
 - a. C.T. Scan. [4]
 - b. Chancroid. [4]
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M.B.B.S. [Final Prof.(Part –II)]
BF/2008/05

Surgery- A
[Including Orthopedics]

M.M. : 60

Time : 3 Hours

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

Part -I

1. Define Shock. Discuss briefly various types of Shock. Write in detail management of Anaphylactic shock. [10]
2. **Write short notes on:**
 - a. Buerger's disease. [5]
 - b. Squamous cell carcinoma. [5]
 - c. Causes of Non healing ulcers. [5]
 - d. Blast injuries. [5]

Part –II
[Orthopaedics]

1. **Write short notes on:**
 - a. Ewing's Sarcoma. [5]
 - b. Septic arthritis Knee. [5]
 2. Describe in detail the management of Femur fracture in thirty year old. [10]
 3. **Write short notes on:**
 - a. Osteomalasia. [5]
 - b. C.T.E.V. [5]
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M.B.B.S. [Final Prof.(Part –II)]
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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, complications and management of Carcinoma Tongue. [10]
2. **Write short notes on:**
 - a. Thyroglossal cyst. [4]
 - b. Ranula. [3]
 - c. Role of CT scan in head injury. [3]
3. **Discuss briefly:**
 - a. Cysto Sarcoma Phylloides. [4]
 - b. Empyema thoracis. [3]
 - c. Cardiac tamponade. [3]

Part – II

4. Enumerate the causes of surgical obstructive Jaundice. Discuss clinical features and management of Carcinoma Head Pancreas. [10]
 5. **Write short notes on:**
 - a. Treatment of Carcinoma stomach. [4]
 - b. Causes of Portal hypertension. [3]
 - c. E.S.W.L. [3]
 6. **Discuss briefly:**
 - a. Varicocele. [3]
 - b. Treatment of Carcinoma prostate. [4]
 - c. Muscle relaxants. [3]
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M.B.B.S. [Final Prof.(Part -II)]

BF/2008/05

Obstetrics & Gynaecology- I

M.M. : 40

Time : 3 Hours

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

Part - I

1. Enumerate indications of induction of labour. Discuss medical methods of induction of labour. [5]
2. Discuss briefly management of Third stage of labour. [5]
3. **Write notes on:**
 - a. Complete perineal tear and its management. [5]
 - b. Incoordinate Uterine contractions. [5]

Part - II

4. Discuss management of patient of 32 weeks pregnancy with six grams of Haemoglobin. [5]
 5. Discuss management of Primigravida 34 weeks pregnancy with breech presentation. [5]
 6. **Write briefly on:**
 - a. Deep transverse arrest in Occipito Posterior position. [5]
 - b. Resuscitation of new born baby. [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. Write causes of Male infertility. How will you investigate him. [5]
2. Write a page on diabetic Vulvo Vaginitis. [5]
3. What is incontinence of Urine. Discuss causes and treatment of true incontinence of Urine. [5]
4. Write a short note on Cervical Carcinoma situ. [5]

Part – II

5. Discuss the management of Endometrial hyperplasia in a woman aged 40 years. [5]
 6. Describe the pathophysiology of Leucorrhoea in a sexually active woman. [5]
 7. What are the causes of painful periods in a woman of 35 yrs. Can OCS help her? [5]
 8. Discuss causes, investigations of an enlarged palpable ovary in post menopausal woman. [5]
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M.B.B.S. [Final Prof.(Part –II)]

BF/2008/05

Paediatrics

M.M. : 40

Time : 3 Hours

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

Part - I

Write notes on:

1. Growth and development in the first year of life. [5]
2. Primary complex. [5]
3. Hemophilia. [5]
4. Aetiopathogenesis and management of Hydrocephalus in children. [5]

Part – II

5. Management of Low birth weight neonates. [5]
 6. Kerosene oil poisoning. [5]
 7. Management of Shock in children. [5]
 8. Down's syndrome. [5]
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