

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

BF/2007/11

Biochemistry - A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

1. **Write briefly :** [4x2.5=10]
 - a. How Free Fatty Acids[FFAs] are transported into the mitochondria?
 - b. How NADPH is synthesized and utilized in the body.
 - c. Mention the regulation of Glycogenolysis in liver and muscles.
 - d. Role of HMP pathway in RBC's.
 2. **Answer briefly:** [4x2.5=10]
 - a. Enumerate the various compounds synthesized from aromatic amino acids.
 - b. Explain the regulation of HMG CoA reductase in the body. Name one pharmacological inhibitor of this enzyme.
 - c. Mention the biological role of White & Brown adipose tissue in the body.
 - d. What are the mixed function Oxygenases. Mention its importance in the body.
 3. **Write short notes on:** [4x2.5=10]
 - a. Nucleosome.
 - b. Homocysteinuria.
 - c. Primary & Secondary bile acids.
 - d. Superoxide dismutase.
 4. **Explain briefly:** [4x2.5=10]
 - a. What is body's protective mechanism against formation of Methaemoglobin. Name one mutation and one aquired cause of Methaemoglobinemia.
 - b. What are the non-functional Plasma enzyme? Mention their diagnostic importance.
 - c. Mention the functions of IgE and IgA in the body.
 - d. Name the different arms of tRNA and mention their function.
 5.
 - a. Discuss blood glucose homeostasis. [5]
 - b. Describe the synthesis and regulation of Urea cycle. [5]
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Biochemistry - B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

1.
 - a. Bring out the differences of replication between Prokaryotes and Eukaryotes in a tabular form. [5]
 - b. State the normal Serum level of Calcium. Compare the action of three major factors which effectively regulate blood Calcium level. [5]
 2.
 - a. Mention the buffer systems of plasma. List the advantages and disadvantages of these buffer systems. [3]
 - b. Explain how measurement of bilirubin and other bile pigments in blood and urine can distinguish different types of Jaundice. [4]
 - c. Briefly describe the role of Glutathione as detoxifying agent. [3]
 3. **Write short notes on:** [4x2.5=10]
 - a. Human genome project.
 - b. Synthetic purine analogues and their clinical significance.
 - c. HPLC.
 - d. Normal Serum electrophoretic patterns and its alteration in nephrotic syndrome.(labeled diagrams only).
 4. **Answer briefly:**
 - a. Blotting techniques and their significance. [4]
 - b. Biochemical role of Zinc. [3]
 - c. Synthesis of Thymine Deoxyribonucleotides. [3]
 5.
 - a. Explain the principle of Polymerase Chain Reaction with the aid of a diagram. [5]
 - b. **Define the following:** [5]
 - i) Gene therapy.
 - ii) Introns.
 - iii) Exons.
 - iv) Hypokalemia.
 - v) Half life of radioactivity.
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Anatomy - A

M.M. : 50

Time : 3 Hours

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

1. Describe the gross and applied anatomy of Thyroid Gland. [9]
 2. **Write short notes on:**
 - a. Tympanic Membrane. [4]
 - b. Wrist joint. [4]
 3. **Draw labeled diagrams to show:**
 - a. Floor of IVth ventricle. [3]
 - b. Structures passing through Carpal Tunnel. [3]
 - c. Formation and branches of Brachial Plexus. [3]
 4. Describe the pathway for PAIN. [8]
 5. **Describe briefly:**
 - a. Fate of Pharyngeal clefts. [3]
 - b. Cartilaginous joints. [3]
 6. **Enumerate the following:** [5x2=10]
 - a. Structures supplied by Glossopharyngeal nerve.
 - b. Flexor and extensor muscles of metacarpophalangeal joints and their nerve supply.
 - c. Fibres in inferior cerebellar peduncle.
 - d. Tributaries of internal jugular vein.
 - e. Components of Waldeyer ring.
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Anatomy - B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

1. **Write short notes on:** [3x3=9]
 - a. Typical intercostal space.
 - b. Inguinal canal.
 - c. Gluteus maximus.

2. **Describe briefly:** [2x4=8]
 - a. Development of Testis with its descent.
 - b. Microanatomy of Cardiac muscle.

3. **Write short notes on:** [3x3=9]
 - a. Movements of Knee joint.
 - b. Development of Pancreas.
 - c. Arch of aorta.

4. **Write briefly on:** [2x4=8]
 - a. Chromosomes.
 - b. Rectus sheath.

5. **Draw labelled diagrams to show:** [4x2=8]
 - a. Microanatomy of Liver.
 - b. Femoral triangle - boundaries and contents.
 - c. Branches of abdominal aorta.
 - d. Venous drainage of heart.

6. **Write short notes on:** [4x2=8]
 - a. Varicose veins.
 - b. Stomach bed.
 - c. Placental barrier.
 - d. Spermatogenesis.

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Physiology - A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

1. Describe role of Hypothalamus in regulation of body temperature. Add note to its abnormalities. [10]
2. **Write notes on:**
 - a. Physiological basis of sign and symptoms of Diabetes Mellitus. [4]
 - b. Stress hormones. [4]
3. **Explain briefly:**
 - a. Chronaxie and its significance. [4]
 - b. Oxygen debt. [4]
4. **Draw well-labelled diagrams of:**
 - a. Pain pathway. [4]
 - b. Structure of neuromuscular junction. [4]
5. **Describe briefly:**
 - a. Oral contraceptive pills. [4]
 - b. Composition of Semen. [4]
6. **Write notes on:**
 - a. Active transport. [2]
 - b. Glaucoma. [2]
 - c. Taste buds. [2]
 - d. Tympanic reflex. [2]

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Physiology - B**M.M. : 50****Time : 3 Hours**

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

1. Define Cardiac output. Discuss any one method to measure Cardiac output and its regulation. [2+8]
 2. Write in short:
 - a. Physiological Jaundice. [2]
 - b. Catabolism of Haemoglobin. [6]
 3. Write in brief:
 - a. Gall Stone. [2]
 - b. Intrinsic Nerve supply of G.I.T. [3]
 - c. Motor functions of Stomach. [3]
 4. Write about:
 - a. Lung compliance. [2]
 - b. Neural regulation of respiration. [4]
 - c. Bronchial asthma. [2]
 5. Write in short:
 - a. Cystometrogram. [4]
 - b. Juxta Glomerular Apparatus. [4]
 6. Write in short:
 - a. Heart rate. [4]
 - b. E.S.R. [4]
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Pharmacology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

1. Enumerate drugs used in Sleep disorder. Discuss their mechanism of actions and side effects. [8]
2. Explain why: [4x2=8]
 - a. Irritant substances cannot be injected subcutaneously .
 - b. Ethyl alcohol is used in Methyl alcohol poisoning.
 - c. In acute Myocardial infarction, Morphine is preferred.
 - d. Antibiotic is now used for treating Peptic Ulcer.
3. Discuss treatment modalities available for Epilepsy. [8]
4. Write short notes on: [4x2=8]
 - a. Pharmacogenetics.
 - b. Drug metabolism.
 - c. Organophosphorus poisoning.
 - d. Physostigmine.
5. Write briefly on: [2x4=8]
 - a. New drug development.
 - b. Drug usage in Pregnancy.

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Pharmacology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

1. **Explain why?** [4x2=8]
 - a. Domperidone is preferred to Metoclopramide in L-dopa induced Vomiting.
 - b. Pyridoxin [Vitamin-B₆] is given along with Isoniazid.
 - c. Oxytocin is preferred to Ergotamine for augmentation of labour.
 - d. Propranolol should be avoided in diabetic patients.
 2. **Discuss in brief the pharmacological basis for the use of:** [4x2=8]
 - a. Finasteride in Benign Prostatic Hyperplasia.
 - b. Rifampicin in Leprosy.
 - c. Thiazides in Hypertension.
 - d. Misoprostol in Peptic Ulcer.
 3. **Discuss briefly the management of:** [4x2=8]
 - a. Acute attack of Vivax Malaria.
 - b. Community acquired Pneumonia.
 - c. Acute Left Ventricular failure.
 - d. Fresh case of Pulmonary Tuberculosis [Category-I]
 4. **Write notes on the following:** [4x2=8]
 - a. Parenteral Iron therapy.
 - b. Inhaled steroids in Asthma.
 - c. Phosphodiesterase inhibitors.
 - d. K⁺ sparing diuretics.
 5. **Write short notes on:** [4x2=8]
 - a. Atorvastatin.
 - b. Gentamicin.
 - c. Ondansetron.
 - d. Ketoconazole.
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Pathology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

1. Define Oedema. Discuss the pathogenetic mechanisms of Oedema. Write differences between nephritic and nephrotic Oedema. [2+4+2=8]
 2. Write short notes on:
 - a. Stains to confirm amyloid. [3]
 - b. Growth promoting Oncogenes. [3]
 3. Tabulate the contrasting features of following:
 - a. Dystrophic and Metastatic calcification. [2]
 - b. Metaplasia and Dysplasia. [2]
 - c. Primary and Secondary healing of Wounds. [2]
 4. Discuss the etiology, pathogenesis, clinical features and laboratory findings in Iron deficiency anaemia. [2+2+2+2=8]
 5. Write short notes on:
 - a. ITP [2]
 - b. FAB classification of acute leukaemias. [2]
 - c. Lab findings in infectious mononucleosis. [2]
 6. Comment on:
 - a. Lab findings in CML. [3]
 - b. Comparison of bone marrow aspiration and trephine biopsy. [3]
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Pathology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions. Draw labelled diagrams wherever needed.

1. Discuss briefly etiology, pathogenesis & pathology of Rheumatic Heart disease. [10]
 2.
 - a. Pathogenesis of Emphysema. [3]
 - b. Micronodular Cirrhosis. [3]
 3. **Differentiate between:**
 - a. Gastric Ulcer & Duodenal Ulcer. [3]
 - b. Osteoclastoma & Osteogenic Sarcoma. [3]
 4. **Comment on:**
 - a. Laboratory diagnosis of Diabetes. [3]
 - b. Gall stones. [3]
 5.
 - a. Chronic Pyelonephritis. [3]
 - b. Seminoma. [3]
 6.
 - a. Classify Ovarian tumours. [3]
 - b. FNAC. [3]
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Microbiology - A

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

1. Discuss the causative agents and laboratory diagnosis of Sore Throat. [8]
 2. Write short notes on:
 - a. Cell Wall. [2]
 - b. Robert Koch. [2]
 - c. Enrichment media. [3]
 3. Write briefly on:
 - a. Transduction. [3]
 - b. Plasmids. [3]
 4. Write short notes on:
 - a. Virulence factors. [4]
 - b. Complement biological effects. [3]
 5. Write short notes on:
 - a. Lab diagnosis of enteric fever. [3]
 - b. Satellitism. [3]
 6. Write short notes on:
 - a. Toxins of E.Coli. [3]
 - b. Non-gonococcal urethritis. [3]
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Microbiology - B

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

1. Describe the life cycle, pathogenesis and laboratory diagnosis of *Wuchereria bancrofti*. [8]
 2. Write short notes on:
 - a. Lab diagnosis of Malaria. [2]
 - b. Larva migrans. [2]
 - c. *Echinococcus granulosus*. [2]
 3. Write briefly on:
 - a. Differences between *Entamoeba histolytica* & *Entamoeba Coli*. [3]
 - b. Amoebic liver abscess. [3]
 4. Discuss morphology, pathogenesis and laboratory diagnosis of Hepatitis B. [8]
 5. Write in brief on:
 - a. Prophylaxis against Influenza. [2]
 - b. Herpes Zoster. [2]
 - c. Tissue culture. [2]
 6. Write short notes on:
 - a. Aspergillosis. [3]
 - b. Deep mycosis. [3]
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Forensic Medicine

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

Use Separate answer sheets for Each Part.

Part - I

1. Define death. Enumerate 'immediate' 'early' and 'delayed' postmortem changes. Discuss factors influencing onset and duration of 'Rigor mortis'.
[1+1+6]
2. Describe medico-legal aspects of the following:
 - a. Seminal stain. [2]
 - b. Patterned bruising. [2]
 - c. Magistrate's inquest. [2]
3. Differentiate between the following:
 - a. Antemortem & Postmortem burns. [2]
 - b. Anoxia and hypoxia. [2]
 - c. Illusion and Hallucination. [2]

Part - II

4. Describe mechanism of action, diagnosis and management of 'Organophosphorus poisoning'. Describe its medico-legal aspects.
[2+2+4]
5. Describe medico-legal aspects of the following:
 - a. Legitimacy. [2]
 - b. Head injury in boxers. [2]
 - c. Viability of the fetus. [2]
6. Differentiate between the following:
 - a. Poisonous and Non-poisonous snake. [2]
 - b. Incise and Incise-looking wound. [2]
 - c. Contributory and Composite negligence. [2]

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. What is the etiology of Quinsy. How do you manage a case of Quinsy. [6]
2. Write notes on:
 - a. Juvenile Laryngeal Papilloma. [4]
 - b. Care of Tracheostomy. [4]
3. Draw neat labelled diagrams:
 - a. View of indirect Laryngoscopy. [3]
 - b. The right normal tympanic membrane. [3]

Part - II

4. What are the complications of unsafe CSOM. How do you manage a case of Otogenic Facial palsy. [6]
 5. Write notes on:
 - a. External auditory canal. [4]
 - b. Deviated nasal septum. [4]
 6. Write notes on:
 - a. Symptoms of Carcinoma maxilla. [3]
 - b. Watery nasal discharge. [3]
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M.B.B.S. [Final Prof.(Part -I)]
BF/2007/11

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. Viral Keratitis. [5]
2. Deep anterior chamber. [5]
3. Pan ophthalmitis. [5]
4. Indications of contact lenses. [5]

Part - II

Describe:

5. Features of Retinoblastoma. [5]
6. Buphthalmos. [5]
7. Differences between Papillitis and Papilloedema. [5]
8. Blunt trauma to the eye. [5]

-
- b. Watery nasal discharge. [3]
-

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. **Write briefly on:**
 - a. Positive Health. [5]
 - b. Sex education in schools. [5]
2. **Discuss briefly on:**
 - a. Rural water supply. [5]
 - b. Vocational rehabilitation. [5]
3. **Write short notes on:**
 - a. Uses of epidemiology. [5]
 - b. Screening test. [5]

Part - II

4. **Write briefly on:**
 - a. Food toxins. [5]
 - b. Trace elements in nutrition. [5]
5. **Discuss briefly on:**
 - a. Sampling methods. [5]
 - b. Presentation of data. [5]
6. **Write short notes on:**
 - a. Mosquito control measures. [5]
 - b. Diseases transmitted by food. [5]

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. Principles of Primary health care. [5]
 - b. Social barriers in family planning. [5]
2. **Write short notes on:**
 - a. ~~Salient features of RCH-II~~ [5]
 - b. Enumerate National nutrition programmes. [5]
3. **Write short notes on:**
 - a. Newer vaccines. [5]
 - b. Rationale behind Pulse Polio Immunization. [5]

Part - II

4. **Write short notes on:**
 - a. Role of health education in health programme. [5]
 - b. Prevention & control of RF/RHD. [5]
 5. **Write short notes on:**
 - a. Risk factors in Coronary heart diseases. [5]
 - b. Post exposure prophylaxis in rabies. [5]
 6. **Write short notes on:**
 - a. Social factors in communicable diseases. [5]
 - b. Perinatal mortality. [5]
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M.B.B.S. [Final Prof.(Part -II)]
BF/2007/11

Medicine - I

M.M. : 60

Time : 3 Hours

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

Part - I

1. Describe etiopathogenesis, clinical features and treatment of acute Rheumatic Fever. [10]
2. **Write short notes on:**
 - a. Mixed connective tissue disease. [5]
 - b. Complications and management of Snake bite. [5]
3. **Discuss briefly:**
 - a. Adverse effects of Blood Transfusion. [5]
 - b. Anaphylaxis. [5]

Part - II

4. Discuss etiopathogenesis, clinical features, investigations and treatment of Multiple Sclerosis. [10]
 5. **Write short notes on:**
 - a. Investigations in a case of Malabsorption. [5]
 - b. Complications of Cirrhosis Liver. [5]
 6. **Write short notes on:**
 - a. Chronic complications of Diabetes Mellitus. [5]
 - b. Clinical features and treatment of Hypothyroidism. [5]
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M.B.B.S. [Final Prof.(Part -II)]
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Medicine - II

M.M. : 60

Time : 3 Hours

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

Part - I

1. a. Discuss etiology, clinical features and treatment of Dengue haemorrhagic fever. [5]
 b. Discuss clinical features and diagnosis of Megaloblastic anaemia. [3]
2. **Write short notes on:**
 - a. Lung abscess. [4]
 - b. Cor Pulmonale [4]
 - c. Diabetic autonomic neuropathy. [3]
3. **Discuss briefly:**
 - a. Nephrotic syndrome [4]
 - b. Causes of hyperkalaemia and its management. [3]
 - c. Weil's disease. [4]

Part - II

4. a. Medical and Skin causes of Pruritus. [4]
 b. Leg Ulcerations. [3]
 c. Eczema. [3]
5. **Describe briefly:**
 - a. Obsessive Compulsive disorder. [4]
 - b. Consequences of Chronic alcoholic misuse. [4]
 - c. Risk factors for Suicide. [4]
6. **Write short notes on:**
 - a. Clinical features and diagnosis of complications of Typhoid fever. [4]
 - b. Disseminated intravascular Coagulation. [4]

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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. Classify the Ulcers and discuss the management of non healing Ulcers. [10]
2. Write short notes on:
 - a. Septic Shock [5]
 - b. Deep Vein Thrombosis. [5]
 - c. Causes of persistence of a Sinus or Fistula. [5]
 - d. Factors influencing Organ function after transplantation. [5]

Part -II
[Orthopaedics]

3. Write notes on:
 - a. Osteo Sarcoma. [5]
 - b. Non Union. [5]
4. Describe the signs and symptoms of FRACTURE NECK FEMUR and its management in a 70 years old patient. [10]
5. Write notes on:
 - a. Complications of Chronic OSTEOMYELITIS. [5]
 - b. Cubitus Varus. [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. Discuss the classification of Salivary Gland tumors.
Describe clinical features and management of Pleomorphic Adenoma of Parotid Gland. [10]
2. **Write short notes on:**
 - a. Solitary Nodule Thyroid. [4]
 - b. Empyema Thoracis. [3]
 - c. Glasgow Coma Scale. [3]
3. **Discuss briefly:**
 - a. Ranula. [3]
 - b. Achalasia Cardia. [4]
 - c. Thromboangitis Oblitans. [3]

Part - II

4. Discuss the clinical features and management of Benign Prostatic Hypertrophy. [10]
 5. **Write short notes on:**
 - a. Duodenal Ulcer. [4]
 - b. Empyema Gall Bladder. [3]
 - c. Dentigerous cyst. [3]
 6. **Discuss briefly:**
 - a. Doppler Ultrasonography. [4]
 - b. Complications of Vasectomy. [3]
 - c. TRIAGE. [3]
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M.B.B.S. [Final Prof.(Part -II)]
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Paediatrics

M.M. : 40

Time : 3 Hours

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

Part - I

Write notes on:

1. Mechanism of action, indications and complications of Phototherapy. [5]
2. Acute Bronchiolitis - etiology, pathogenesis and treatment. [5]
3. Treatment of Thalassemia major. [5]
4. Pertussis Vaccine. What are the advantages, disadvantages of a cellular Pertussis Vaccine over whole cell vaccine. [5]

Part - II

5. Febrile Convulsions and their prophylaxis. [5]
 6. Enuresis. [5]
 7. Assessment of dehydration in diarrhoea and management of severe dehydration. [5]
 8. Complications of Measles. [5]
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Obstetrics & Gynaecology- I

M.M. : 40

Time : 3 Hours

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

Part - I

1. Define Post Partum Haemorrhage[PPH]. What are its causes. How will you manage a patient of primary PPH. [5]
2. How will you manage a patient who comes with a haemoglobin of 5g% at 30 weeks of pregnancy. [5]
3. Write briefly on :
 - a. Episiotomy. [5]
 - b. Partogram. [5]

Part - II

4. How will you manage a patient who comes with occasional Uterine contractions at 30 weeks of pregnancy. [5]
 5. Define Pre eclampsia. What are the criteria for severe Pre eclampsia. How will you manage a patient of severe Pre eclampsia at 37 weeks of gestation. [5]
 6. Write briefly on:
 - a. Diagnosis and management of Ectopic Pregnancy. [5]
 - b. Exclusive breast feeding. [5]
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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 Postmenopausal bleeding. How will you manage a 50 years old woman with Carcinoma endometrium. [5]
2. Write note on Hormone replacement therapy. [5]
3. Different methods to know the Tubal patency in an infertile woman. Explain hysterosalpingography. [5]
4. Bacterial Vaginosis. [5]

Part - II

5. Role of Tumour markers in gynaecological practice. [5]
 6. Write investigations and management of a 35 yrs old woman with Carcinoma Cervix stage Ia. [5]
 7. Advantages and disadvantages of Cu-T 380A. [5]
 8. Preoperative and postoperative care in a woman undergoing abdominal hysterectomy. [5]
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