

Basic Sciences as applied to Surgery
[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe surgical anatomy and lymphatic drainage of Breast. Discuss the pathological classification and clinical staging of Breast tumours. [30]

2. Describe the development of Pancreas and its blood in detail. Discuss pathogenesis of acute Pancreatitis and its complications. [30]

3. **Write short notes on:**
 - a. Tumour markers. [20]

 - b. Fluid Resuscitation in trauma. [10]

 - c. Post operative Pain management. [10]

MS[Surgery]
BF/2008/05

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Principles & Practice of Surgery
[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Explain in detail systemic immune response modulators and multiple organ dysfunction syndrome. [30]
 2. Classify breast swellings and describe in detail the management of locally advanced breast cancer. [25]
 3. Write short notes on: [3x15]
 - a. FDG PET.
 - b. Management of Hashimotos thyroiditis.
 - c. Management of Pancreatic Pseudocyst.
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MS[Surgery]
BF/2008/05

Operative Surgery
[Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss the principles of management of Carcinoma breast. Describe the indications, operative steps and complications of Modified Radical Mastectomy. [20]

2. Write notes on:
 - a. Central Venous access. [10]
 - b. Choledochojejunostomy. [10]

3. Describe the indications, operative steps and complications of the following:
 - a. Total thyroidectomy. [10]
 - b. Lap Cholecystectomy. [10]
 - c. Anterior resection. [10]

4. Discuss the preoperative preparation for:
 - a. kidney transplant. [10]
 - b. Gastrectomy in a diabetic patient. [10]
 - c. Ileostomy closure. [10]

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MS[Surgery]
BF/2008/05

Recent Advances in Surgery
[Paper-IV]

Time : 3 Hours

M.M.: 100

*Note: Attempt all questions.
All questions carry Equal marks.*

1. What is anti-angiogenic therapy and its scope in surgical practice?
2. What are the recent modalities used for the treatment of primary varicose veins? How do they compare with conventional surgical treatment?
3. Write a short note on Natural Orifice Transluminal Endoscopic Surgery [NOTES].
4. Write a short note on damage control surgery.
5. What are the current strategies in the management of post operative peritoneal adhesions?
6. List the surgical options for morbid obesity. What is the current status of Gastric sleeve resection?
7. Write a short note on ambulatory surgery.
8. What is the principle of sentinel lymph node biopsy? What is the current status of sentinel lymph node biopsy in breast cancer.
9. What is the current status of Three-field lymphadenectomy for esophageal cancer.
10. What is the principle of stem cell therapy? List some of the potential applications of stem cell therapy in surgical practice.

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MS[Orthopaedics]
BF/2008/05

Basic Sciences as related Orthopaedics
[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe the blood supply of Head of femur at various ages and how will you manage a case of FRACTURE OF NECK FEMUR in a 50 years male. [30]

2. Write short notes on: [4x10]
 - a. Calcitonin.
 - b. Bowmann's angle.
 - c. Tumor markers.
 - d. Crystal synovitis.

3. Write notes on: [3x10]
 - a. Strength duration curve.
 - b. Chemotherapy of Osteosarcoma.
 - c. Tarsal tunnel.

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MS[Orthopaedics]
BF/2008/05

**Principles & Practice of Orthopaedics diseases
& Operative orthopaedics**
[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe the pathology, clinical features and management of Osteosarcoma in distal femur. [30]

2. Write short notes on:
 - a. Anterior approach to humerus. [10]
 - b. High tibial osteotomy. [10]
 - c. Congenital Vertical talus. [10]

3. Write short notes on:
 - a. Relapsed C.T.E.V. in 5 year old male. [10]
 - b. Synovial Chondromatosis. [10]
 - c. Acute osteomyelitis tibia in a child of 8 years. [10]
 - d. Bone substitutes. [10]

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MS[Orthopaedics]
BF/2008/05

Traumatology and its related aspects
[Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss shoulder instability in detail with special reference to its management. [30]

 2. Write short notes on:
 - a. Role of Illizarov fixator in management of fractures. [10]
 - b. Medial condyle fractures of humerus in children. [10]
 - c. Fat embolism syndrome. [10]
 - d. Implant infection. [10]

 3. Discuss the classification of acetabular fractures with special reference to its management and complications. [30]
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MS[Orthopaedics]
BE/2008/05

Recent Advances in Orthopaedics
[Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss the recent trends in the management of proximal humeral fractures. [40]

2. Write short notes on: [3x10]
 - a. Use of Laser in orthopedics.
 - b. Multidrug resistance in tuberculosis.
 - c. Surface arthroplasty.

3. Discuss in brief: [2x15]
 - a. The concept of damage control in polytrauma patients.
 - b. The principles of amputation in children.

MS[Ophthalmology]

BF/2008/05

Anatomy & Physiology including Optics of the Eye [Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

1. Describe the anatomy of Lacrimal drainage apparatus. Discuss the physiology of Tear Drainage. Draw suitable diagram. [20]
2. Describe anatomy of Choroid. Discuss its significance. [20]
3. Describe microscopic anatomy of Angle of Anterior Chamber. Discuss its clinical significance. [20]
4. **Describe in brief:**
 - a. AC/A Ratio. [10]
 - b. Corneal endothelial pump. [10]
5. **Write short notes on:**
 - a. Anisometropia. [10]
 - b. Panum's Fusional area. [10]

MS[Ophthalmology]
BF/2008/05

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**General Ophthalmology including Pathology
of the Eye**
[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss the pathogenesis of Corneal Graft failure. [30]

2. Describe the current management strategies in Central vein occlusion. [30]

3. Write briefly on: [40]
 - a. Ultrasonic biomicroscopy.
 - b. Pathology of subretinal neo-vascular membranes.
 - c. Circinate retinopathy.
 - d. IOL power calculation in children.

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MS[Ophthalmology]
BF/2008/05

Ophthalmic Medicine
[Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe Ocular manifestations of AIDS and their management. [25]

 2. Describe etiology, clinical features and management of Primary Open Angle Glaucoma. [25]

 3. Write briefly on: [50]
 - a. Ectopia Lentis.
 - b. ARMD.
 - c. ETDRS.
 - d. Diagnosis and management of OSD.
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MS[Ophthalmology]

BF/2008/05

Surgery and recent advances in Ophthalmology [Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe basic principles and techniques of LID RECONSTRUCTION. [25]

2. Describe principles and techniques of surgical management of RHEGMATOGENOUS RETINAL DETACHMENT. [25]

3. Write short notes on: [30]
 - a. Management of recurrent Pterygium.
 - b. Techniques of nucleotomies in Phaco.

4. Describe briefly: [20]
 - a. Endothelial keratoplasty.
 - b. Anti VEGFs.

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MS[Ear, Nose & Throat]
BF/2008/05

**Basic Sciences as related to Ear, Nose & Throat
diseases**
[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe various compartments and folds of Middle ear. [30]

 2. Describe the physiology of Nose. [30]

 3. **Write short notes on:**
 - a. Decibel. [10]

 - b. Formation of Saliva and its functions. [10]

 - c. Interior of the Larynx. [10]

 - d. Styloid apparatus. [10]
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MS[Ear, Nose & Throat]

BF/2008/05

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**Principles & Practice of Ear, Nose & Throat
diseases
[Paper-II]**

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Write down the differential diagnosis of conductive hearing loss in a 35 years old female with intact tympanic membrane. Write the surgical steps, prosthesis and complications of Surgery. [30]

2. Write down the aetiopathogenesis, sign and symptoms of Carcinoma glottis. Write down various conservative laryngeal surgery options with special reference to near total Laryngectomy. [30]

3. Write short notes on: [40]
 - a. Photodynamic therapy.
 - b. Goldenher syndrome.
 - c. Merits and demerits of various incisions used in radical neck dissection.
 - d. Osteomeatl complex.

MS[Ear Nose & Throat]

BE/2008/05

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**Operative Surgery & Principles of General surgery
as applied to ENT
[Paper-III]**

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe the indications and surgical technique for Near total Laryngectomy. [25]
2. Discuss the surgical management of Pleomorphic adenoma of Parotid gland. [25]
3. **Write short notes on:** [5x10]
 - a. Thyroglossal cyst.
 - b. Endoscopic assisted middle ear surgery.
 - c. Osteotomies for rhinoplasty.
 - d. Bone anchored hearing aids.
 - e. Lymphangiomas in neck.

MS[Ear Nose & Throat]

BF/2008/05

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Recent advances in ENT diseases

[Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss the selection criteria of Cochlear implant and post operative rehabilitation. [30]
 2. Discuss the indications and technique of Cranial nerve monitoring in Otorhinolaryngology. [30]
 3. **Write short notes on:** [4x10]
 - a. 3-D navigation in ENT.
 - b. Biomaterials in otology.
 - c. Botulinum toxin in ENT.
 - d. Microvascular decompression.
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MS[Anatomy]

BF/2008/05

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Surgery as applied to Anatomy
[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

Illustrate your answers with suitable diagrams.

1. Describe movements of Knee joint and muscles producing the movements. What is mechanism of locking and unlocking of Knee.
[30]
 2. Describe the nerve supply and blood supply of Stomach. What is the anatomical basis of Gastric ulcer.
[30]
 3. **Write short notes on:** [4x10]
 - a. Coraco-Acromial arch and its applied anatomy.
 - b. Klinefelter syndrome.
 - c. Parotid fascia and its applied anatomy.
 - d. Pleural effusion.
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MS[Anatomy]
BF/2008/05

**Gross Human Anatomy including Radiological and
Forensic Anatomy**
[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. **Describe the Knee joint under the following headings:** [30]
 - a. Ligaments.
 - b. Movements.
 - c. Applied anatomy.

2. **Describe the lymphatic drainage of Stomach. Add a note on its applied anatomy.** [30]

3. **Write short notes on:** [40]
 - a. Cell junctions.
 - b. Arterial supply of Spinal cord.
 - c. Imaging techniques.
 - d. Tonsil.

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MS[Anatomy]
BE/2008/05

Embryology and Microscopic Anatomy
[Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe the microanatomy of lung and correlate it with its functions. [28]
 2. Write briefly on: [3x12=36]
 - a. Meckel's diverticulum.
 - b. Development of eye.
 - c. Primitive streak.
 3. Write short notes on: [3x12=36]
 - a. Microanatomy of Liver.
 - b. Microanatomy of Cerebrum.
 - c. Stomatodeum.
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MS[Anatomy]
BF/2008/05

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**Applied Anatomy and recent advances
in Anatomy**
[Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe ligaments of Knee joint. Add a note on the locking of Knee.
[30]
 2. Describe supports of Uterus including clinical significance of Anteversion and Retroversion.
[30]
 3. **Write short notes on:**
 - a. Claw hand. [20]
 - b. Fascia of Denonvillier's. [10]
 - c. Amniocentesis. [10]
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