

**D.M.R.T.**  
**[Diploma in Medical Radiology Therapy]**  
BF/2008/05

**Basic Sciences as related to Radiotherapy**  
**[Paper-I]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Describe the physical characteristic of Co-60 source and its use in external beam therapy. Define SSD and SAD techniques for the treatment of Cancer. [30]
2. Describe in detail the procedures to be followed in the intracavitary, Interstitial and permanent implants of Brachytherapy and mention the sources used in these techniques. [25]
3. **Write short notes on:** [3x15=45]
  - a. Iodine therapy.
  - b. IMRT.
  - c. LET and LD<sub>50/60</sub>

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**D.M.R.T.**  
**[Diploma in Medical Radiology Therapy]**  
BF/2008/05

**Physical as applied to Medical Radiotherapy**  
**[Paper-II]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Describe the management of CARCINOMA of NASOPHARYNX. [25]
2. Classify the Breast tumours. How will you manage early Ca. Breast. [25]
3. Describe the Figo staging system for Carcinoma of uterine cervix. Discuss the role of concurrent chemo irradiation in it. [25]
4. Write short notes on: [25]
  - a. Organ preservation in cancer.
  - b. Multiple Myeloma.

**D.M .R.T.**  
**[Diploma in Medical Radiology Therapy]**  
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**Therapeutic Radiology and Medical Sciences applied to  
Medical Radiology  
[Paper-III]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Management options in Multiple Myeloma. [25]
2. Craniospinal Irradiation - Describe indications and technique. [25]
3. Describe briefly:
  - a. HDR Brachytherapy. [12<sup>1</sup>/<sub>2</sub>]
  - b. Intraoperative radiotherapy. [12<sup>1</sup>/<sub>2</sub>]
4. Describe in short:
  - a. Antiemesis measures in chemotherapy. [12<sup>1</sup>/<sub>2</sub>]
  - b. Management of bone metastasis. [12<sup>1</sup>/<sub>2</sub>]

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**D.C.H.**  
**[Diploma in Child Health]**  
BF/2008/05

**Basic Sciences as related to Paediatrics**  
**[Paper -I]**

**M.M. : 100**

**Time : 3 Hours**

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

**Write short notes on:**

1. Management of neonatal hypothermia.
2. Mechanism of neuronal injury in hypoxic ischaemic encephalopathy.
3. Physiology of Shock.
4. Diagnosis of HIV infection in a neonate.
5. Temper Tantrums.
6. Lung development.
7. Sexual maturity rating.
8. Antenatal diagnosis.
9. Oxygen dissociation curve.
10. Genetic basis of inheritance.

**D.C.H.**  
**[Diploma in Child Health]**  
BF/2008/05

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**Neonatal Paediatrics, growth and development, diet and  
nutrition etc.**  
**[Paper -II]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. **Discuss in brief:**
    - a. Pervasive development disorders in children. [15]
    - b. Causes and management of Thelarche in a 6 year old child. [15]
    - c. Polio eradication - where we failed and what is the way ahead? [10]
  2.
    - a. Compare and contrast the clinical picture and the management of the different types of Hemorrhagic disease of the newborn. [15]
    - b. Approach to a 2 hour old newborn with Cyanosis. [15]
  3. **Write notes on:**
    - a. Why do we need IMNCI in India. [15]
    - b. Eating disorders in adolescence. [15]
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**D.C.H.**  
**[Diploma in Child Health]**  
BF/2008/05

**Diseases of Infancy & childhood and recent advances in  
Paediatrics**  
[Paper -III]

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Management guidelines for immune thrombocytopenic purpura. [10]
  2. Management of febrile neutropenia. [10]
  3. Define severe malaria. [5]
  4. Celiac disease: Clinical presentation and diagnosis. [10]
  5. Post resuscitation management of neonate with perinatal asphyxia. [15]
  6. Atopic dermatitis. [5]
  7. Antimicrobial therapy in community acquired pneumonia. [10]
  8. Identification and management of Congestive Cardiac failure in infancy. [15]
  9. Gastroesophageal reflux disease. [10]
  10. When to suspect inborn error of metabolism. [10]
-

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**D.M.R.D.**  
**[Diploma in Medical Radiology Diagnosis]**  
BF/2008/05

**Basic Sciences as related to Radiology**  
**[Paper-I]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Describe the development of Kidney. Enumerate and discuss various imaging modalities available for its examination. [40]
  
  2. Write short notes on: [5x12=60]
    - a. Automatic processor.
    - b. Grids.
    - c. Computed Radiography.
    - d. Anatomy of Mediastinum.
    - e. Anatomy of Male urethra.
-

**[Diploma in Medical Radiology Diagnosis]**

BF/2008/05

**Physics as applied to Medical Radiology  
[Paper-II]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. **Write short notes on:**
    - a. Ultrasound contrast media. [15]
    - b. Flair technique & significance. [15]
  2. **Describe in detail:**
    - a. Safe light. [10]
    - b. Isotopes in bone tumours. [15]
  3. **Write briefly on:**
    - a. Disadvantage of intensifying screens. [15]
    - b. Ultrasound Harmonic imaging. [15]
    - c. Computed Vs. Digital radiography. [15]
-



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**D.M.R.D.**  
**[Diploma in Medical Radiology Diagnosis]**  
BF/2008/05

**Diagnostic Radiology & Recent advances**  
**[Paper-III]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Discuss briefly Dual Energy CT scan and its application and advantages in various disease with major applications. [25]
  2. MR Contrast Media. [25]
  3. CT angiography - Present status. [25]
  4. Digital mammography. [25]
-

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**D.O.M.S.**  
**[Diploma in Ophthalmic Medicine & Surgery]**  
BF/2008/05

**Basic Sciences as related to Ophthalmology**  
**[Paper-I]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. Discuss the methods of early Glaucoma detection. [20]
  2. Describe the applied anatomy of the Orbit. Discuss the importance of the surgical spaces of the orbit. [20]
  3. Discuss the evaluation of Macular functions in Opaque media. [20]
  4. Write short notes on:
    - a. Binocular vision. [10]
    - b. Multifocal lenses. [10]
  5. Discuss briefly:
    - a. Precorneal Tear Film. [10]
    - b. VER. [10]
-

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**D.O.M.S.**  
**[Diploma in Ophthalmic Medicine & Surgery]**  
BF/2008/05

**Ocular Physiology and Anatomy, Medical and General  
Ophthalmology including surgery  
[Paper-II]**

**M.M. : 100**

**Time : 3 Hours**

**Note : Attempt all questions.**

1. **Describe:**
    - a. Anatomy of Angle of Anterior Chamber. [10]
    - b. Ciliary body. [10]
  2. **Describe:**
    - a. Composition and functions of Tear film. [10]
    - b. Accomodation. [10]
  3. Discuss causes, clinical evaluation and management of DRY EYE SYNDROME. [20]
  4. **Write short notes on:** [4x10=40]
    - a. Medical management of OPEN ANGLE GLAUCOMA.
    - b. Multifocal IOL's.
    - c. Antifungal drugs.
    - d. Vitrectomy.
-

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**D.O.M.S.**  
**[Diploma in Ophthalmic Medicine & Surgery]**  
BF/2008/05

**Ocular Pathology, Optics and Refraction and recent  
advances  
[Paper-III]**

**M.M. : 100**

**Time : 3 Hours**

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

1. **Write short notes on:**
  - a. Optical principles and application of Retinoscopy.
  - b. Biometry and calculation of power of an IOL in a child less than 6 yrs of age.
  - c. Management of significant anisometropia.
  - d. Deep anterior lamellar Keratoplasty.
  - e. Keratoconus and recent concepts in its management.
2. **Describe briefly:**
  - a. Etiopathogenesis of phlyctenular conjunctivitis and its management.
  - b. Corneal graft rejection.
  - c. Pathology of basal cell carcinoma of lid.
  - d. Recent advances in the management of ARMD.
  - e. Femto second laser.

# **[Diploma in Anaesthesia]**

BF/2008/05

## **Basic Sciences as related to Anaesthesia**

**[Paper -I]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Describe the anatomy of epidural space with an illustration.  
Discuss the structures pierced by a needle to reach epidural space. [30]
  2.
    - a. Physiology of pregnancy, and its relevance to an anaesthesiologist. [15]
    - b. Discuss the causes of prolonged neuromuscular block. [15]
  3. **Write short notes on:** [4x10=40]
    - a. Mallampati classification and its current status.
    - b. Functional classification of anaesthesia circuits.
    - c. Anaphylactoid reaction.
    - d. Placental transfer of drugs.
-

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**D.A.**  
**[Diploma in Anaesthesia]**  
BF/2008/05

**Anesthesia and Analgesia history, theory and practice of  
anesthesia**  
**[Paper -II]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Enumerate the problems in a patient suffering from uncontrolled Hypertension. Describe the preoperative preparation, anaesthetic management, and P.O. pain management in such a patient undergoing Herniorrhaphy. [30]
2. **Write briefly about:**
  - a. Monitoring in Cardiac patient. [15]
  - b. Femoral block. [15]
3. **Write notes on:**
  - a. Evaluation of Upper airway. [10]
  - b. BIPAP. [10]
  - c. John Snow. [10]
  - d. Advantages and disadvantages of CSEA. [10]

**D.A.**  
**[Diploma in Anaesthesia]**  
BF/2008/05

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**Anesthesia and Analgesia history, theory and practice of  
anesthesia**  
[Paper -II]

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Enumerate the problems in a patient suffering from uncontrolled Hypertension. Describe the preoperative preparation, anaesthetic management, and P.O. pain management in such a patient undergoing Herniorrhaphy. [30]
  
2. **Write briefly about:**
  - a. Monitoring in Cardiac patient. [15]
  - b. Femoral block. [15]
  
3. **Write notes on:**
  - a. Evaluation of Upper airway. [10]
  - b. BIPAP. [10]
  - c. John Snow. [10]
  - d. Advantages and disadvantages of CSEA. [10]

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**D.A.**  
**[Diploma in Anaesthesia]**  
BF/2008/05

**Preoperative care and postoperative complications, the  
clinical sciences in relation to anaesthesia etc.**  
[Paper -III]

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. A 26 yrs. Old, term pregnant patient, diagnosed as severe pre-eclampsia posted for elective Caesarian section.  
Discuss - Preoperative evaluation and preparation.  
- Postoperative care and management in such a patient. [30]
  
2. **Enumerate:**
  - a. Preoperative considerations in a 50 yr. Old patient with Type 2 Diabetes Mellitus posted for Laparoscopic Cholecystectomy. [15]
  - b. Complications related to surgery for TURP. [15]
  
3. **Write short notes on:** [4x10=40]
  - a. Criteria for weaning from prolonged mechanical ventilation.
  - b. Shivering in postanesthesia care unit.
  - c. Use of antibiotic in Intensive Care Unit[ICU].
  - d. Discharge criteria for day care surgery.



# **[Diploma in Laryngology & Otology]**

BE/2008/05

## **Basic Sciences as related to Ear, Nose and Throat**

**[Paper -I]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Discuss the mechanism of Phonation. [30]
  
  2. Describe the anatomy of intratemporal part of facial nerve with relevant clinical importance. [30]
  
  3. Write short notes on: [4x10=40]
    - a. Anatomy of Maxillary sinus.
    - b. Post natal development of Temporal bone.
    - c. Posturography.
    - d. Paraglottic space.
-

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**D.L.O.**  
**[Diploma in Laryngology & Otology]**  
BF/2008/05

**Principles and Practice of Ear, Nose and Throat**  
**including elementary acoustics**  
[Paper -II]

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Describe the investigations and treatment of a patient having tubercular Lymphadenitis of the Neck. [20]
  
2. Write notes on: [4x10=40]
  - a. Oto acoustic emissions.
  - b. Otomycosis.
  - c. Management of Bells Palsy.
  - d. Treatment of Fibrous dysplasia.
  
3. Write notes on: [4x10=40]
  - a. Investigations in a case of unilateral vocal cord palsy.
  - b. Decibel.
  - c. CSF Rhinorrhoea.
  - d. Juvenile laryngeal papillomatosis.

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**D.L.O.**  
**[Diploma in Laryngology & Otology]**  
BF/2008/05

**Operative Surgery of ENT and recent advances**  
**[Paper -III]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. **Write notes on:**
    - a. Surgical management of Facial nerve [15]
    - b. Bronchoscopy. [15]
  
  2. **Write notes on:**
    - a. Complications of Mastoid surgery. [15]
    - b. Endonasal DCR. [15]
  
  3. **Write notes on:**
    - a. Surgical management of atrophic Rhinitis. [10]
    - b. Forehead Flaps. [10]
    - c. Myringoplasty. [10]
    - d. Complications of Rhinoplasty. [10]
-

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**D.G.O.**  
**[Diploma in Gynaecology & Obstetrics]**  
BF/2008/05

**Basic Sciences as related to Obstetrics & Gynaecology**  
**[Paper -I]**

**M.M. : 100**

**Time : 3 Hours**

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

1. Enumerate causes of Oligomenorrhoea. Outline the management of young woman with suspected genital tuberculosis. [25]
  
2. **Write short notes on:**
  - a. Emergency contraception. [12<sup>1</sup>/<sub>2</sub>]
  - b. Thromboprophylaxis during pregnancy. [12<sup>1</sup>/<sub>2</sub>]
  
3.
  - a. Precocious puberty. [12<sup>1</sup>/<sub>2</sub>]
  - b. Role of hysteroscopy in gynae. [12<sup>1</sup>/<sub>2</sub>]
  
4.
  - a. Function of amniotic fluid in pregnancy and labour. [12<sup>1</sup>/<sub>2</sub>]
  - b. Tumour markers in gynaecological practice. [12<sup>1</sup>/<sub>2</sub>]

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**D.G.O.**  
**[Diploma in Gynaecology & Obstetrics]**  
BF/2008/05

**Principles & Practice of Obstetrics & Gynaecology**  
**& diseases of new born babies**  
[Paper -II]

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. How will you manage a primigravida at 36 weeks gestation coming with blood pressure record of 170/110. [25]
2. Write an essay on management of PPH. [25]
3. **Write briefly on:**
  - a. Management of a primigravida at 28 weeks pregnancy with moderate anaemia. [10]
  - b. Importance of and methods to detect Zygoty in twin gestation. [10]
  - c. Prevention of deep vein thrombosis in obstetric patients. [5]
4. **Write notes on:**
  - a. Neonatal complications of prematurity. [13]
  - b. Precautions and criteria for conducting vaginal birth after previous Caesarian section. [12]

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**D.G.O.**  
**[Diploma in Gynaecology & Obstetrics]**  
BF/2008/05

**Recent advances in Obstetrics & Gynaecology**  
**[Paper -III]**

**M.M. : 100**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Discuss diagnosis and management of gestational diabetes mellitus with emphasis on recent developments. [20]
2. Discuss new developments in the management of Uterovaginal prolapse [20]
3. **Write short notes on:** [4x15=60]
  - a. Stem cell therapy.
  - b. Role of Uterine artery embolisation.
  - c. ART in women over 40 years.
  - d. Chorioamnionitis : current concepts.