

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_{50/60}

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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.

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[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. [12¹/₂]
 - b. Intraoperative radiotherapy. [12¹/₂]

4. **Describe in short:**
 - a. Antiemesis measures in chemotherapy. [12¹/₂]
 - b. Management of bone metastasis. [12¹/₂]

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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. 5
[Diploma in Child Health]
BF/2008/05

**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.
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[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 Anesthesia

[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

**Anaesthesia and Analgesia history, theory and practice of
anaesthesia**
[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 Lymphadenities 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. [12¹/₂]
 - b. Thromboprophylaxis during pregnancy. [12¹/₂]

3.
 - a. Precocious puberty. [12¹/₂]
 - b. Role of hysteroscopy in gynae. [12¹/₂]

4.
 - a. Function of amniotic fluid in pregnancy and labour. [12¹/₂]
 - b. Tumour markers in gynaecological practice. [12¹/₂]

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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.