

D.M.R.T.
[Diploma in Medical Radiology Therapy]
BF/2008/12

Basic Sciences as related to Radiotherapy
[Paper-I]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Discuss Hyperthermia - methods of heating with special emphasis on mechanisms of action of Hyperthermia. [30]
 2. Enumerate the steps in radiation teletherapy planning. Discuss simulation and verification in detail. [25]
 3. **Write notes on:**
 - a. Percentage depth dose. [15]
 - b. Particle beam therapy. [15]
 - c. Interaction of ionizing radiation with matter. [15]
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D.M.R.T.
[Diploma in Medical Radiology Therapy]
BF/2008/12

Physical as applied to Medical Radiotherapy
[Paper-II]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Describe the management of Carcinoma Glottis. Discuss the various radiotherapy techniques. [25]
2. Describe the staging of Cancer of Breast. Discuss the radiotherapy techniques Post Modified Radical Mastectomy [MRM]. [25]
3. Describe the pathological classification of Ovarian tumours and FIGO staging of Carcinoma ovary. [25]
4. **Write short notes on:** [5x5=25]
 - a. Beam modification devices.
 - b. Bolus materials.
 - c. Differences between Kilovoltage and Megavoltage.
 - d. Physical characters of Electron Beam.
 - e. Maximum Permissible Dose [MPD]

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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. How will you manage Carcinoma breast of Left side proven by FNAC and clinically staged as $T_2N_1M_0$ disease. [25]
 2. Classify and stage lung cancer. Describe role and techniques of radiotherapy used for Lung cancer management. [25]
 3. **Describe the following briefly:**
 - a. Management of Liver metastasis. [12½]
 - b. Management of Glioblastoma Multiforme. [12½]
 4. **Write short notes on:**
 - a. Tomotherapy. [12½]
 - b. Acute radiation effects management. [12½]
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D.C.H.
[Diploma in Child Health]
BF/2008/12

Basic Sciences as related to Paediatrics
[Paper –I]

M.M. : 100

Time : 3 Hours

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

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| 1. | Diagnosis and management of Scabies. | [10] |
| 2. | Physiology of Lactation. | [10] |
| 3. | Munchausen syndrome by Proxy. | [10] |
| 4. | Pica. | [10] |
| 5. | Cryptorchidism. | [10] |
| 6. | Management of non resolving Pneumonia. | [10] |
| 7. | Intractable asthma - differential diagnosis and management. | [10] |
| 8. | Transport of sick baby. | [10] |
| 9. | Scorpion sting - management. | [10] |
| 10. | Fragile X syndrome. | [10] |
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D.C.H.
[Diploma in Child Health]

BF/2008/12

**Neonatal Paediatrics, growth and development,
diet and nutrition etc.**

[Paper –II]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Management of one year old child weighing 6 kg presenting with acute dysentery and severe dehydration. [15]
 2. Newer guidelines for Neonatal resuscitation. [15]
 3. Causes and management of Neonatal Hypoglycaemia. [15]
 4. Autistic disorders. [15]
 5. Bone age assessment and its usefulness. [15]
 6. National Iodine deficiency disorder control programme. [15]
 7. Age independent anthropometric criteria for diagnosing PEM. [10]
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D.C.H.
[Diploma in Child Health]
BF/2008/12

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

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Management of acute liver failure in a 5 yr. old child. [20]
 2. Management of acute renal failure in a 2 year old child. [20]
 3. Management of a 5 year old child suffering from B-Thalassemia major. [20]
 4. Prophylaxis of Infective endocarditis. [15]
 5. Management of Neurocysticercosis. [15]
 6. Ambiguous Genitalia. [10]
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D.A.
[Diploma in Anaesthesia]

BF/2008/12

Basic Sciences as related to Anasthesia

[Paper –I]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Describe anatomy of tracheobronchial tree with the help of a diagram.
Discuss its importance to anesthetist and intensivist. [30]

 2. a. Compare Succinyl choline with rocuronium. [15]

 - b. Classify various Oxygen therapy devices. Describe principles, working, advantages and disadvantages of multivent ventimask. [15]

 3. a. Discuss Carbondioxide transport and its elimination from body. [10]

 - b. Describe briefly the working of a modern anesthesia ventilator. [10]

 - c. Describe checking of anesthesia machine and related equipment. [10]

 - d. Discuss the importance of various Liver function tests. [10]
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D.A.
[Diploma in Anaesthesia]

BF/2008/12

**Anesthesia and Analgesia history, theory and
practice of anaesthesia**
[Paper –II]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

Read the question carefully and keep the answers short and to the point.

Enumerate=Just write the names without description;

Short note=<20 lines;

Tabulate=Write the answer within a table only, Don't explain.

1. Write **short note** on Autologous blood transfusion. [10]
2. **Enumerate** the methods to relieve post-operative pain in an adult patient who has undergone right upper lobe lobectomy. Give detail of any one. [10]
3. A 2 year 10 kg child of retinoblastoma is scheduled for MRI of skull under GA. How will you conduct the case? (Do not write about pre-anesthetic work-up; start with the PAC cleared child outside the MRI room). [10]
4. Write **short note** on - Difficult Airway Algorithm. [10]
5. Write **short note** on - Hyperkalemia. [10]
6. **Tabulate** the differences between Basic Life support in an adult and child victim. [10]
7. **Enumerate** the possible causes of intra-operative Hyper-tension in an otherwise normotensive patient. Briefly describe its management(the patient's BP during PAC and at pre-induction time was 130/90 mmHg and patient is not a known hypertensive). [10]
8. Write **short note** on - "October 16". [10]
9. Write **short note** on - Anesthesia for Eye surgery. [10]
10. Write **short note** on - Weaning from ventilator. [10]

D.A.
[Diploma in Anaesthesia]

BF/2008/12

**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. Discuss the pre-anesthetic evaluation and preparation of a Thyrotoxic patient for Thyroidectomy. [25]

2. **Write briefly on:**
 - a. Current status of pre-emptive analgesia. [15]
 - b. Complications of internal jugular vein canulation and their management. [15]
 - c. HELLP syndrome. [15]

3. **Write short notes on:**
 - a. Latest ASA physical status classification. [10]
 - b. Paediatric Cardiopulmonary resuscitation. [10]
 - c. Indications of post-operative elective ventilation. [10]

D.G.O.
[Diploma in Gynaecology & Obstetrics]

BF/2008/12

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

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Etiopathology, causes and management of disseminated intravascular coagulopathy. [25]

 2. **Write short notes on:**
 - a. Role of imaging in gynaecology. [12¹/₂]
 - b. Newer concept in management of uterine fibroid. [12¹/₂]

 3.
 - a. Tubal factors in infertility. [12¹/₂]
 - b. Hyperandrogenism. [12¹/₂]

 4.
 - a. Predictors of PIH. [12¹/₂]
 - b. Vaginal bleeding after child birth. [12¹/₂]
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D.G.O.
[Diploma in Gynaecology & Obstetrics]
BF/2008/12

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

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Foetal monitoring & antenatal surveillance management of IUGR at 28 weeks. [25]
 2. Define Eclampsia. How will you prevent & management at 34 weeks of pregnancy. [25]
 3. **Write short notes on following:**
 - a. Tocolytic drugs. [10]
 - b. Complication of abruptio placenta. [15]
 4. **Write short notes on following:**
 - a. Management of premature babies. [12]
 - b. Causes of Perinatal mortality & prevention. [13]
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D.G.O.
[Diploma in Gynaecology & Obstetrics]
BF/2008/12

Recent advances in Obstetrics & Gynaecology
[Paper –III]

M.M. : 100

Time : 3 Hours

Note : Attempt all questions.

1. Discuss prevention and treatment of Preterm labour. [20]
 2. Recent developments in Polycystic Ovary syndrome. [20]
 3. **Write short notes on:**
 - a. Emergency contraception. [15]
 - b. Role of Human Papilloma virus in cervical cancer. [15]
 - c. Thrombophilia and pregnancy complications. [15]
 - d. Laparoscopic management of endometriosis. [15]
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