

APRIL 2001

[KD 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY — THERAPY
EXAMINATION.

(New Regulations)

Paper III — CLINICAL PRACTICE AND
TECHNIQUE OF RADIOTHERAPY AND
CANCER CHEMOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the management of Carcinoma Endometrium. (25)
 2. Describe the classification of Soft Tissue Sarcomas — Describe the management of Rhabdomyo Sarcoma in the Child and Adult. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Retinoblastoma
 - (b) Gene Therapy
 - (c) Plasmacytoma
 - (d) Kaposis' sarcoma
 - (e) Interferon.
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NOVEBER 2001

[KE 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY – THERAPY
EXAMINATION.

(New Regulations)

Paper III — CLINICAL PRACTICE AND
TECHNIQUE OF RADIOTHERAPY AND CANCER
CHEMOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss : Palliative radiotherapy in the management of metastatic disease. (25)
 2. Enumerate the pathology, routes of spread, staging and treatment of retinoblastoma. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Combination of Radiotherapy and Chemotherapy
 - (b) Hodgkin's disease
 - (c) Various effects of irradiation of the ovary
 - (d) Dose specifications for interstitial radiotherapy
 - (e) Management of cancer cervix with pregnancy.
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MARCH 2002

[KG 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY – THERAPY
EXAMINATION.

(New Regulations)

Part II

Paper II — CLINICAL PRACTICE AND TECHNIQUE
OF RADIOTHERAPY AND CANCER
CHEMOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. How do you classify brain tumours? Discuss the management of a child with meduloblastoma? (25)
 2. What are non-metastatic manifestations of malignant diseases? Illustrate their importance in the management of cancer? (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Bis-Phosphonates.
 - (b) Intravascular brachytherapy.
 - (c) CA - 125.
 - (d) Monoclonal antibodies.
 - (e) Chemo radiotherapy.
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SEPTEMBER 2002

[KH 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY-
THERAPY EXAMINATION.

(New Regulations)

Paper III — CLINICAL PRACTICE AND TECHNIQUE
OF RADIOTHERAPY AND CANCER
CHEMOTHERAPY

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Enumerate the clinical applications and the normal tissue reactions of electron beam. (25)
 2. Discuss the pathologic classifications, growth characteristics and treatment techniques of malignant tumors of salivary glands. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Conformal therapy
 - (b) Mantle field technique
 - (c) Clinical applications of remote after loading systems of Ir-192
 - (d) Contraindications to the radiotherapy of intracranial tumors
 - (e) Bleomycin.
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OCTOBER 2003

[KJ 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY THERAPY
EXAMINATION.

(New Regulations)

Part II

Paper II — CLINICAL PRACTICE AND TECHNIQUE
OF RADIOTHERAPY AND CANCER
CHEMOTHERAPY

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on
the first page of M.C.Q. Booklet.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay Questions : (2 × 15 = 30)

(1) Describe the anatomy of Nasopharynx.
Discuss the clinical signs and symptoms and radio
therapeutic management of Nasopharyngeal carcinoma.

(2) Discuss the etiological factors for cancer
oesophagus. Describe the role of radiotherapy in the
management of cancer of middle $\frac{1}{3}$ of oesophagus.

II. Write short notes on : (10 × 5 = 50)

(1) Combination chemotherapy of Hodgkin's
disease.

(2) Medullary carcinoma of Thyroid.

(3) Radiotherapy of Ca Endometrium.

(4) Hormone therapy of Ca prostate.

(5) Tumor markers in Ca ovary.

(6) Hormone receptors in Ca Breast.

(7) Prophylactic cranial irradiation in small cell
Lung cancer.

(8) Performance Status

(9) Moving strip technique.

(10) Intraluminal Brachytherapy.

MARCH 2007

[KQ 1519]

Sub. Code : 3027

**DIPLOMA IN MEDICAL RADIOLOGY THERAPY
EXAMINATION**

**Paper III – CLINICAL PRACTICES AND
TECHNIQUES OF RADIO THERAPY AND CANCER
CHEMOTHERAPY**

Common to

(Candidates admitted from 1993–94 onwards)

and

(Candidates admitted from 2004–05 onwards)

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

- 1. Describe in detail the role of radiotherapy in lymphomas and leukemia's. (20)**
- 2. Discuss prognostic factors and role of radiotherapy in carcinoma of the prostate. (15)**
- 3. Describe management of Early Breast Cancer with details of Radiotherapy indications and techniques. (15)**

II. Short notes :

(6 × 5 = 30)

- (a) Beam modification in radiotherapy.**
 - (b) Pegulated doxorubicin.**
 - (c) Cancer genetics.**
 - (d) Management of middle third carcinoma of Esophagus.**
 - (e) Biological therapies.**
 - (f) Temozolamide.**
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MARCH 2008

[KS 1519]

Sub. Code : 3027

DIPLOMA IN MEDICAL RADIOLOGY THERAPY EXAMINATION.

Paper III — CLINICAL PRACTICE AND TECHNIQUES OF RADIO
THERAPY AND CANCER CHEMOTHERAPY

(Common to all Regulations)

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Write essay on : (2 × 20 = 40)
- (1) Discuss the merits and demerits of Hypo fractionation with appropriate examples.
 - (2) Discuss the role of radiotherapy in benign diseases.
- II. Write short notes on : (10 × 6 = 60)
- (1) Carbon Ion radiotherapy.
 - (2) Stereostatic Radio surgery.
 - (3) Rituximab.
 - (4) Implant Rules.
 - (5) ICRU 38.
 - (6) LQ Model.
 - (7) Prodromal Radiation Syndrome.
 - (8) 2nd malignancy
 - (9) Spinal cord tolerance.
 - (10) Radiation mucositis.
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September 2008

[KT 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY
EXAMINATION.**

**Paper III – CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY**

(Common to all candidates)

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Write about carcinoma of vulva and its treatment guidelines.
2. Write about adverse cutaneous effects of cancer chemotherapeutic agents and its management.

II. Write short notes on :

(10 X 6 = 60)

1. CA 125.
 2. AIDS related lymphomas.
 3. Modification of Radio sensitivity.
 4. Tolerance doses of the following with its importance
(a) Liver (b) Lens eye (c) Kidney (d) Retina
 5. Oncogenes.
 6. Oxaliplatin.
 7. Paclitaxal.
 8. BRCA 1 & 2.
 9. Inflammatory Ca of breast.
 10. IMRT.
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MARCH -2009

[KU 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY
EXAMINATION.**

**Paper III – CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY**

(Common to all candidates)

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Discuss the classification and staging of ovarian malignancies. How will you manage a stage III C epithelial ovarian carcinoma?
2. Discuss the AJCC staging of glottis cancer. How will you work up and diagnose a patient who is suspected to have Carcinoma of larynx. With suitable diagrams explain the planning techniques and complications in radiation treatment of T1 Glottic cancer.

II. Write short notes on : (10 X 6 = 60)

1. Management of stage II A Testicular Seminoma.
2. Cranio spinal irradiation indications and techniques.
3. Neuroblastoma.
4. Breast conservation treatment of breast cancer.
5. General outline in the management of CML.
6. R-CHOP.
7. Management of early nasopharyngeal carcinoma.
8. Three year old child with medulloblastoma. How will you investigate and manage.
9. Paediatric genitourinary Rhabdomyosarcoma.
10. Newer trends in management of multiple myeloma.

September - 2009

[KV 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY
EXAMINATION.**

**Paper III – CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY**

(Common to all candidates)

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions : (2 X 20 = 40)

1. Classify cancer chemotherapeutic agents and the role of hormonal agents in malignancy.
2. Outline treatment and planning of prostatic carcinoma.

II. Write short notes on : (10 X 6 = 60)

1. Radio sensitivity.
2. Side effects of radiotherapy.
3. Monoclonal antibodies.
4. Xerostomia.
5. Alpha feto protein.
6. Beams eye view.
7. Back scatter.
8. Pancoast tumor.
9. Iridium 192.
10. Carcinoid syndrome.

March 2010

[KW 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY EXAMINATION
CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY**

(Common to all candidates)

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions :

(2 x 20 = 40)

1. Discuss the staging of seminoma testis. How will you work up a patient with testicular malignancy? Explain the treatment of stage II A seminoma testis. Write the radiation techniques in detail with suitable diagrams.
2. Discuss the anatomy of maxillary antrum. What is the staging of maxillary antrum carcinoma? Explain the role of radiation treatment and technique of radiation with diagrams.

II. Write short notes on :

(10 x 6 = 60)

1. Preoperative radiation in rectal cancer.
2. FOLFOX schedule.
3. Discuss the management of Wilm's tumour.
4. Disseminated intravascular coagulation in cancer.
5. Mechanism of action of capecitabine.
6. Medullary carcinoma thyroid.
7. General outline in the management of CML.
8. Discuss the management of grade III astrocytoma frontal lobe.
9. Iridium 192
10. MIBI scan.

September 2010

[KX 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY (D.M.R.T.)
EXAMINATION.**

Part II-Paper II Candidates admitted from 2008-09 onwards

And

Paper III for Candidates admitted from 2004-05 to 2007-08

**CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY**

Q.P. Code : 343027

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Describe in detail the total management of early breast carcinoma in a 32 years old premenopausal patient.
2. Discuss the role and technique of permanent Interstitial Brachytherapy and IMRT in carcinoma prostate.

II. Write short notes on :

(10 X 6 = 60)

1. Image guided radiotherapy.
2. Total skin electron therapy.
3. Hyperthermia in radiotherapy.
4. Radiation menopause.
5. Post operative radiation in carcinoma maxilla.
6. Role of PET scan in radiotherapy.
7. General outline in the management of CML.
8. Small cell lung cancer.
9. Neoadjuvant chemotherapy.
10. Paclitaxel.

APRIL 2011

[KY 1519]

Sub. Code: 3027

**DIPLOMA IN MEDICAL RADIO THERAPY (DMRT)
EXAMINATION**

**CLINICAL PRACTICE AND TECHNIQUES OF
RADIO THERAPY AND CANCER
CHEMOTHERAPY
Q.P. Code : 343027**

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

| | Pages (Max.) | Time (Max.) | Marks (Max.) |
|--|-------------------------|------------------------|-------------------------|
| 1. Discuss management of Carcinoma Maxillary Antrum. | 11 | 35 | 15 |
| 2. Discuss the role of Radiotherapy and Techniques in Medulloblastoma. | 11 | 35 | 15 |

II. Write notes on :

| | | | |
|---|---|----|---|
| 1. Role of PET scan in Radiotherapy. | 4 | 10 | 7 |
| 2. Intraluminal radiotherapy. | 4 | 10 | 7 |
| 3. Intensity Modulated radiotherapy. | 4 | 10 | 7 |
| 4. Mantel Technique. | 4 | 10 | 7 |
| 5. Hydroxy urea. | 4 | 10 | 7 |
| 6. Megestrol. | 4 | 10 | 7 |
| 7. Carboplatin. | 4 | 10 | 7 |
| 8. Non-Hodgkin's Lymphoma. | 4 | 10 | 7 |
| 9. High dose chemotherapy. | 4 | 10 | 7 |
| 10. Concurrent chemotherapy and Radiotherapy. | 4 | 10 | 7 |

[LA 1519]

April 2012

Sub. Code: 3027

DIPLOMA IN MEDICAL RADIO THERAPY (DMRT) EXAMINATION

**CLINICAL PRACTICE AND TECHNIQUES OF RADIO THERAPY AND
CANCER CHEMOTHERAPY**

Q.P. Code : 343027

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Discuss the management of Cancer Breast T3N1M0 in a premenopausal lady with Her2neu positive, ER and PR Positive. | 16 | 35 | 15 |
| 2. Discuss the combined modality management in Head and neck cancer. | 16 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Describe the management of Cancer Endometrium. | 4 | 10 | 7 |
| 2. Describe the Chemotherapy in Testicular tumors. | 4 | 10 | 7 |
| 3. Describe the Chemotherapy in Multiple Myeloma. | 4 | 10 | 7 |
| 4. Discuss the Prophylactic Radiation in Small Cell Lung Cancer. | 4 | 10 | 7 |
| 5. Describe the management of Neuroblastoma. | 4 | 10 | 7 |
| 6. Describe the schedules of Docetaxel. | 4 | 10 | 7 |
| 7. Describe the role of Rituximab in lymphomas. | 4 | 10 | 7 |
| 8. Describe the Involved Field Radiation. | 4 | 10 | 7 |
| 9. Describe the management of Medullary Carcinoma Thyroid. | 4 | 10 | 7 |
| 10. Describe the management of Bone Secondaries. | 4 | 10 | 7 |

(LC 1519)

APRIL 2013

Sub. Code: 3027

DIPLOMA IN MEDICAL RADIO THERAPY (DMRT) EXAMINATION

**CLINICAL PRACTICE AND TECHNIQUES OF RADIO THERAPY AND
CANCER CHEMOTHERAPY**

Q.P. Code : 343027

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the management of high grade gliomas.
2. Describe the management of cancer lower third oesophagus.

II. Write notes on:

(10X7=70)

1. Describe the management of muscle invasive bladder cancer.
2. Describe the nodal management in cancer Penis.
3. Describe the role of Brachytherapy in cancer breast.
4. Describe the perineal implantation.
5. Describe the role of Radiation in cancer rectum.
6. Describe the role of Radiation in skin cancers.
7. Describe the management of cancer external auditory canal.
8. Describe the beam modifying devices used in cancer maxillary Antrum.
9. Describe the role of Chemotherapy in small cell lung cancer.
10. Describe the management of Osteogenic Sarcoma.

(LE 1519)

APRIL 2014

Sub. Code:3027

**DIPLOMA IN MEDICAL RADIO THERAPY (DMRT) EXAMINATION
CLINICAL PRACTICE AND TECHNIQUES OF RADIO THERAPY AND
CANCER CHEMOTHERAPY**

Q.P.Code: 343027

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the management of Cancer Breast T3N1M0 in a premenopausal lady with Her2neu positive. ER and PR Positive.
2. Discuss the combined modality management in Head and neck cancer.

II. Write notes on:

(10X7=70)

1. Describe the management of Cancer Endometrium.
2. Describe the Chemotherapy in Testicular tumors.
3. Describe the Chemotherapy in Multiple Myeloma.
4. Discuss the Prophylactic Radiation in Small Cell Lung Cancer.
5. Describe the management of Neuroblastoma.
6. Describe the schedules of Docetaxel.
7. Describe the role of Rituximab in lymphomas.
8. Describe the Involved Field Radiation.
9. Describe the management of Medullary Carcinoma Thyroid.
10. Describe the management of Bone Secondaries.
