Reg. No.				
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(Deemed University)

## MD (RADIOTHERAPY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER I: BASIC SCIENCES IN RELATION TO RADIOTHERAPY

Monday, July 04, 2005 Time: 3 Hrs. Max. Marks: 100 Answer all the questions. Draw neat labeled diagrams wherever necessary. ES Describe the anatomy and lymphatic drainage of Ovary. Classify ovarian tumors. 1. (20 marks) What is the physical basis for fractionation in radiotherapy? Describe in detail about hyper 2. fractionation & accelerated fractionation in radiotherapy. (20 marks) K. M. C. LIBRARY 3. Write in detail about cell survival curve. (20 marks) Write short notes on the following: 4. (40 marks) 4A. LQ model. 4B. Radiation myelitis. 4C. Integral dose. 4D. Bromodeoxyuridine.

(Deemed University)

# MD (RADIOTHERAPY) DEGREE EXAMINATION – JULY 2005

m.	Tuesday, July 05, 2005	May Markey 100
_	: 3 Hrs.	Max. Marks: 100
K K	Answer all the questions.  Draw neat labeled diagrams wherever necessary.	
2	Draw near labeled diagrams wherever necessary.	
1.	What are beam modifying devices? Describe about universal wedges.	
		(20 marks)
2.	Describe in detail about X-rays production. What are the interactions of X	-rays with matter?
		(20 marks)
3.	What are the dose equivalent limits as the present ICRP recommendations	? Describe in detail
	about radiation protection.	34
		(20 marks)
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4.	Write short notes on the following:	
		(40 marks)
4A.	Tc 99 m.	
4B.	Quality assurance of simulator.	
4C.	Student 't' test.	
4D.	Biological half life.	

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# MD (RADIOTHERAPY) DEGREE EXAMINATION – JULY 2005

SUE		ay, July 06, 2005
Tim	e: 3 Hrs.	Max. Marks: 100
K K	Answer all the questions.  Draw neat labeled diagrams wherever	necessary.
1.	Describe the staging of carcinoma of ma	xillary antrum. How do you manage stage T3 N0 M0
	carcinoma of maxillary antrum?	
	4	(20 marks)
2.	Stage multiple myeloma. Describe the m	anagement of Plasmacytoma.
		(20 marks)
3.	Describe in detail the management of T1	a N0 M0 staged carcinoma of vocal cords.
		(20 marks)
4.	Write short notes on the following:	
		(40 marks)
4A.	Apoptosis.	
4B.	Anthracyclins.	DV
4C.	Burkitt's Lymphoma.	W. C. LIBRARY

4D. Medroxy progesterone acetate.

Reg. No.		

(Deemed University)

## MD (RADIOTHERAPY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER IV: RECENT ADVANCES IN RADIATION ONCOLOGY

Thursday, July 07, 2005

Time: 3 Hrs.	Max. Marks: 100
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- & Draw neat labeled diagrams wherever necessary.
- What is sterotactic radiotherapy? Discuss in detail the steps involved in the SRT management of AV malformation of brain.

(20 marks)

What are the indications for elective cranial irradiation? Discuss in detail the management of small cell carcinoma of lung.

(20 marks)

 Describe in detail the etiology, pathophysiology and management of Spinal cord compression in malignancies.

(20 marks)

# K. M. C. LIBRARY

4. Write short notes on the following:

(40 marks)

- 4A. Multi leaf collimator.
- 4B. Capecitabine.
- 4C. Cyclotron.
- 4D. Letrazole.