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RADIOTHERAPY

PAPER - III

RTH/D/17/41/III

Time	: 3 hours
Max. Marks	: 100
Important ins	structions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	 a) Compare preoperative versus postoperative radiation in locally advanced rectal cancer. b) Compare long versus short course preoperative radiotherapy in rectal cancer. c) Radiotherapy versus chemoradiotherapy in rectal cancer. 	4+4+2
2.	 a) Initial diagnostic work up of a suspected multiple myeloma b) Mention major & minor diagnostic and prognostic criteria. c) Management of a solitary plasmacytoma. 	4+3+3
3.	a) What is the role of sealed and unsealed radionuclide sources in cancer management?b) Discuss different altered fractionation schemes and their rationale.c) What are the different types of immobilization devices used in head and neck radiotherapy?	2+4+4
4.	Write the rationale behind, giving examples: a) Neoadjuvant chemotherapy followed by radiotherapy b) Radiotherapy followed by adjuvant chemotherapy c) Concurrent chemoradiotherapy	3+3+4
5.	a) What is asymmetric collimation?b) Use of wedgesc) Use of tissue compensators	4+3+3
6.	Management of: a) Superficial bladder cancer b) Muscle invasive bladder cancer	5+5



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7.	Role of: a) EBRT in carcinoma oesophagus b) Chemoradiotherapy in carcinoma oesophagus c) Brachytherapy in carcinoma oesophagus	3+4+3
8.	Integration of molecular targeted approaches with radiotherapy: a) Give examples b) Rationale c) Clinical trials	3+3+4
9.	a) What is the purpose of IGRT? In what way it differs from 2-D RT, 3-D CRT and IMRT?b) Describe different methods of imaging techniques used for IGRT.c) KV versus MV imaging.	4+3+3
10.	a) Current status of neoadjuvant chemotherapy in carcinoma cervix. b) What is radical trachelectomy? c) What basic fundamentals should be taken into consideration while planning a patient for radiotherapy?	3+3+4