FINAL EXAM
JUNE 2014

NATIONAL BOARD OF EXAMINATIONS

RADIOTHERAPY

PAPER - III

RTH/J/14/41/III

Time : 3 hours
Max. Marks : 100

Important instructions:

- 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.

1. Classify the bone tumors. Mention radiological features of osteogenic sarcoma. Give brief account of extracorporeal irradiation in osteogenic sarcoma. — 4+2+4

2. Discuss briefly the salient features of soft-tissue sarcomas. Describe the role and procedure for intraoperative brachytherapy. — 3+(3+4)

3. Describe symptoms and signs of multiple myeloma. How will you treat these patients? — 4+6

4. A patient presents with acromegaly and found to have pituitary adenoma, how will you investigate and treat with radiation therapy? — 4+6

5. Describe how a patient with mycosis fungoides will present. How will you investigate, plan and execute Total Skin Electron Therapy? — 2+8

6. What is the role of chemotherapy in carcinoma stomach? Mention its chemotherapy schedule. How will you draw GTV, CTV and PTV? — 4+2+4

7. Give example of neoadjuvant, concurrent and adjuvant chemotherapy. Discuss the role of chemotherapy for sphincter preservation in rectal cancers. — 3+7

8. What post radiation changes occur in a patient radically treated for glioblastoma? How will you differentiate recurrence and necrosis? Mention treatment options for recurrence. — 4+3+3

9. How will you manage radiation induced pneumonitis and proctitis. — 5+5

10. What is genetic counseling? Mention five cancers associated genetically. What will be your policy for a lady with strong family history and having BRACA 1 and 2 mutations? — 1+3+6