

Rajiv Gandhi University of Health Sciences

Post-Graduate Fellowship Examination – JULY-2019

Time: Three Hours**Max. Marks: 100 Marks****Brachytherapy - PAPER – I****QP Code: F015**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (These questions carry 20 marks each)**2 X 20 = 40 Marks**

1. Describe the properties desirable in an ideal Brachytherapy source. Describe these properties for Ra-226, Cs-137, Ir-192, Co-60, I-131 and P32, Sr90 along with their clinical applications, advantages and disadvantages.
2. Discuss the role of Brachytherapy in carcinoma cervix.

SHORT ESSAY (These questions carry 10 marks each)**6 X 10 = 60 Marks**

3. Describe the role of Brachytherapy in orbital tumors.
4. What do you understand by the terms temporary implant and permanent implant? Elaborate giving clinical examples.
5. What are the radiation hazards associated with Brachytherapy? How do you eliminate/minimize them?
6. Describe the role of Intraluminal radiotherapy in carcinoma esophagus. How will you implement it?
7. What are the AAPM recommendations for quality assurance in Brachytherapy?
8. What is Endovascular Brachytherapy? Describe.

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