

**M.D. DEGREE EXAMINATION**  
**BRANCH XXIV – NUCLEAR MEDICINE**  
**PAPER II – CLINICAL NUCLEAR MEDICINE INCLUDING RADIO**  
**PHARMACEUTICALS AND THEIR APPLICATIONS**

*Q.P. Code: 203002*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Iodination techniques.
2. In-vivo non imaging studies.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Mechanism of localization of radiopharmaceuticals.
2. Quality control of Tc99m eluate.
3. Myocardial perfusion imaging.
4. Lymphoscintigraphy.
5. Radiopharmaceuticals for infection imaging.
6. Gastric emptying study.
7. PET CT in lymphoma.
8. Management of medullary carcinoma thyroid.
9. Cyclotron produced Radionuclides, elaborate on F-18.
10. Principles of a radionuclide generator.

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