

[LS 121]

NOVEMBER 2020
(OCTOBER 2020 SESSION)

Sub. Code: 3017

M.D. DEGREE EXAMINATION

BRANCH XXIV – NUCLEAR MEDICINE

**PAPER II – RADIOPHARMACY, RADIOBIOLOGY, QUALITY ASSURANCE
IN MEDICAL IMAGING, RADIATION PROTECTION RADIATION SAFETY
INCLUDING NATIONAL AND INTERNATIONAL REGULATORY NORMS**

Q.P. Code: 203017

Time : Three Hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Biological effects of ionising radiation
2. Non-imaging Tests in Nuclear Medicine

II. Write notes on:

(10 x 7 = 70)

1. NEMA for SPECT
2. Hypoxia and tumour progression
3. DNA mediated gene transfer
4. Iodination
5. QC of radiopharmaceutical
6. Radiation weighting factors
7. Dose limits ICRP 103
8. GFR estimation using plasma sample method
9. eLORA
10. PETCT layout as per AERB guidelines
