[LM 122] MAY 2018 **Sub. Code: 3003**

M.D. DEGREE EXAMINATION

BRANCH XXIV – NUCLEAR MEDICINE

PAPER III – RECENT ADVANCES IN NUCLEAR MEDICINE–INSTRUMENTATION RADIO–PHARMACY AND CLINICAL APPLICATIONS

Q.P. Code :203003

Time : Three Hours **Maximum : 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Multimodality imaging methods in the evaluation of dementia.
2. Scintigraphy for neuroendocrine tumours.

II. Write notes on: **(10 x 7 = 70)**

1. Role PET/CT in radiation therapy planning.
2. Current recommendations for radioiodine ablation in papillary thyroid cancer.
3. Mutation studies in thyroid cancer.
4. Role of PET-CT fusion imaging in cervical cancer.
5. Image segmentation in Nuclear Medicine.
6. New designs in collimators.
7. Deauville score.
8. Protocols of cardiac viability studies.
9. Paraneoplastic syndrome.
10. Radio-synovectomy.

****

[LO 122] MAY 2019 **Sub. Code: 3003**

M.D. DEGREE EXAMINATION

BRANCH XXIV – NUCLEAR MEDICINE

PAPER III – RECENT ADVANCES IN NUCLEAR MEDICINE–INSTRUMENTATION RADIO–PHARMACY AND CLINICAL APPLICATIONS

Q.P. Code: 203003

Time : Three Hours **Maximum : 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. PSMA PET and Radionuclide Therapy in Prostate Cancer.
2. Radioisotopes for bone pain palliation.

II. Write notes on: **(10 x 7 = 70)**

1. Spectrum of Benign Bone Conditions on NaF-PET.
2. PET imaging in neurodegenerative disease.
3. Myocardial Metabolic Imaging.
4. Management of neuroendocrine tumours.
5. Radiopharmaceuticals for tumor imaging.
6. Reporter Genes for Imaging.
7. Intra-Arterial Radionuclide Therapies for Liver Tumors.
8. Management of differentiated thyroid cancers.
9. PET in RT planning.
10. Newer PET tracers for oncology imaging.

****