

127-NR

M.D. DEGREE EXAMINATION – APRIL, 2013 RADIO DIAGNOSIS

Paper-IV: Radiodiagnosis including Nuclear Medicine and other diseases

Time: 3 Hours Max. Marks: 100

Note: Answer all questions

All questions carry equal marks Draw diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1. Discuss the advances in imaging and management of ischemic stroke
- 2. Discuss the principles, instrumentation and methodology of PET imaging. Elaborate on its role in head and neck cancers.
- 3. Describe segmental anatomy of the liver. Discuss imaging in liver transplantation.
- 4. Write short note on:
 - a) MR imaging of placenta
 - b) Flat panel detector
 - c) Cartilage imaging
 - d) Pharmacological agents used in cardiac CT & MRI
 - e) Intraductal papillary mucinous tumor of pancreas
- 5. Describe High intensity focused ultrasound (HIFU) Principle, instrumentation and its applications.
- 6. Discuss the role of PET scanning in Gastrointestinal disorders.
- 7. Write short note on:
 - a) Imaging in brain death
 - b) Nodal imaging on MR
 - c) Imaging of breast implant
 - d) Susceptibility weighted imaging
 - e) MR Tractography
- 8. What are isotopes? What is the principle of SPECT? Mention the common applications of radionuclide isotopes in diagnostic radiology.
- 9. Discuss the principles and basis of CT perfusion imaging and its various assessment parameters. Define the role of CT perfusion in onco imaging.
- 10. Discuss various images guided Musculoskeletal interventions.

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