

**M.D. DEGREE EXAMINATION**

**BRANCH VIII – RADIO DIAGNOSIS**

**PAPER IV – RADIO DIAGNOSIS INCLUDING INTERVENTIONAL  
PROCEDURES AND RECENT ADVANCES**

*Q.P. Code: 202034*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the principle and instrumentation of PET scanning? Add a note on clinical application and mention two non-FDG molecules of PET scanning.
2. Enumerate the causes of ring enhancing lesions of brain parenchyma in MRI. Discuss the role of DWI and MR spectroscopy in differentiation of various lesions.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Oncologic Applications of Dual-Energy CT in the Abdomen.
2. Digital Tomosynthesis of the breast.
3. Role of ultrasound in evaluation of peripheral nerves.
4. Classification and Endovascular management of intra-cranial dural arteriovenous fistulae.
5. Evaluation of uterine cervical incompetence.
6. PC-PNDT Act.
7. Imaging of Congenital anomalies of the uterus.
8. Pressure injectors in radiology interventions.
9. Image guided radiofrequency ablation.
10. Ultrasound Elastography in Breast lesions.

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