Write short notes on:

1. a) Principles of MR imaging.  
   b) Indications of PET/MR in oncology.  
      7+3

2. Detection of low-grade glioma using radionuclide imaging.  
   10

3. Role of nuclear medicine imaging in management of cases of PUJ obstruction both in adults and children.  
   10

   10

5. Role of nuclear medicine techniques in Ca ovary.  
   10

6. a) Familial MTC  
   b) Functional pancreatic NET  
      5

7. a) CT dose index (CTDI)  
   b) Attenuation correction in PET/MR.  
      5

8. Compare and contrast amyloid imaging and Tau imaging in dementias.  
   5+5

   b) Hemimegalencephaly  
      5

10. Post radioiodine patient release guidelines - India vs USA.  
    5+5

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POSSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.