

**QP Code:101187**

**Reg.No.:.....**

**P.G. Diploma Examinations in Medical Radio diagnosis (DMRD) -  
May 2016**

**Paper I – Basic Sciences as Applied to Radio diagnosis (Basic science, Radiation physics, Radiological anatomy, Radiography and contrast media)**

**Time: 3 hrs**

**Max marks:100**

- ***Answer all questions***
- ***Draw diagram wherever necessary***

**Essay:**

**(20)**

1. Describe factors affecting radiographic quality with respect to conventional radiography. Enumerate the measures that may be taken to improve radiographic quality.

**Short essays:**

**(8x10=80)**

2. Anatomy and imaging of the external carotid artery.
3. Radiation monitoring devices.
4. Transducers.
5. Segmental anatomy of the liver.
6. Anatomy and imaging of the broncho-pulmonary segments.
7. C.T. artifacts.
8. M.R. contrast agents.
9. Interactions of x-rays with matter.

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