

124-NR

M.D. DEGREE EXAMINATION – APRIL, 2013

RADIO DIAGNOSIS

Paper-I – Basic Sciences

Time : 3 Hours

Max. Marks : 100

Note : Answer all questions

All questions carry equal marks

WRITE SHORT ESSAYS ON THE FOLLOWING:

1. Discuss the principles, construction and functionalities of individual components of an image intensifier. Briefly describe the fluoroscopic imaging unit assembly.
2. Discuss the principles and applications of Multislice volumetric spiral CT.
3. Discuss the imaging anatomy of the shoulder joint
4. Write short note on:
 - a) High KV techniques in chest X-ray
 - b) Fetal circulation
 - c) Piezo electric effect
 - d) Iohexol
 - e) Thermionic emission
5. Describe in detail the structure and principle of intensifying screen. Discuss the newer phosphor technology.
6. Discuss in detail digital subtraction angiography.
7. Write short note on:
 - a) Craniovertebral junction
 - b) Carpal tunnel view
 - c) Rectification
 - d) Air gap technique
 - e) Sialography
8. Discuss in detail the construction of a grid and explain how it helps in improving the radiographic quality.
9. Discuss the imaging anatomy of the orbit.
10. Discuss the basic principles of MRI

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