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MANIPAL UNIVERSITY

THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: PHYSICS AND DARK ROOM TECHNIQUES

Wednesday, December 10, 2008

Time: 10.00-13.00 Hrs.

Max. Marks: 80

- ✍ **Answer all questions.**
- ✍ **All questions carry equal marks.**

1. Write short notes on three phase generator.
2. Write short notes on TLD dosimeter.
3. Write short notes on factors affecting radiographic quality.
4. Write short notes on X-ray tube circuit.
5. Write short notes on Collimators in Radiography.
6. Write short notes on general construction of cassettes.
7. What is meant by optical density? What are the factors affecting optical density?
8. What is meant by blur? What are the factors affecting geometrical blur and how?



MANIPAL UNIVERSITY**THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008****SUBJECT: RADIOLOGICAL PROCEDURES**

Thursday, December 11, 2008

Time: 10:00-13:00 Hrs.

Max. Marks: 80

☞ Answer all questions. Each question carries equal marks.

1. Describe Intra Venous Contrast Media.
2. Write in brief about Enteroclysis.
3. Write short note on MCU.
4. Describe ERCP.
5. Describe the procedure of Barium Enema.

☞ Describe the following radiographic views

6. Knee Joint – AP and Lateral
7. Shoulder Joint- AP and Lateral
8. Optic foramen
9. Chest - Left Lateral decubitus
10. Femur – AP and Lateral



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MANIPAL UNIVERSITY

THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – DECEMBER 2008

SUBJECT: NEW IMAGING MODALITIES AND RECENT ADVANCES

Friday, December 12, 2008

Time: 10.00-13.00 Hrs.

Max. Marks: 80

✍ Attempt all questions. Each question carries equal marks

1. Discuss in detail indication, contraindication, technique and complication of fallopian tube recanalisation.
2. Discuss indication, patient preparation and precautions while performing angiography.
3. What is principle of MRI?
4. Describe MR protocol for evaluation of female pelvis.
5. Discuss in detail Hounsfield unit.
6. Discuss various types of detectors used in CT scan.
7. What are helical CT artifacts?
8. Discuss briefly various coils used in MR imaging.
9. Describe real time ultrasound.
10. Describe principle of Doppler ultrasound.

