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MANIPAL UNIVERSITY

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

SUBJECT: PHYSICS AND DARK ROOM TECHNIQUES

Monday, June 16, 2008

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer all questions. All questions carry equal marks. (8 marks each)**

1. Write a short note on falling load generator.
2. Write a short note on developer-replenisher.
3. Write a short note on Geiger Muller counter.
4. Write a short note on dark room construction.
5. Write a short note on TLD.
6. Write a short note on rotating anodes.
7. Write a short note on Rectification.
8. Write a short note on dark room safe lighting.
9. Write a short note on Anode heel effect.
10. Write a short note on line focus principle.



Reg. No.																			
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MANIPAL UNIVERSITY

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

SUBJECT: RADIOLOGICAL PROCEDURES

Tuesday, June 17, 2008

Time: 3 Hrs.

Max. Marks: 80

- ✍ Answer ALL questions.
- ✍ Each question carries equal marks.

- 1 Describe contrast media in Gastrointestinal tract.
- 2 Describe the preparation of patient who is posted for the procedure of Intravenous Urography.
- 3 Describe the indication of ERCP and PTBD.
- 4 Write in brief about the angiographic equipments.
- 5 Write short note on Sialography.

Describe the following radiographic views:

- 6 Chest PA view.
- 7 Humerus- AP and Lateral.
- 8 Scaphoid Views.
- 9 Ankle joint- AP, Lateral and Oblique.
- 10 PNS- Water's view.



MANIPAL UNIVERSITY**THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2008****SUBJECT: NEW IMAGING MODALITIES AND RECENT ADVANCES**

Wednesday, June 18, 2008

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer ALL questions.**

✍ **All questions carry equal marks.**

1. What are types of ultrasonic display? Discuss briefly about each.
2. Discuss briefly interaction between ultrasound and matter.
3. What is time gain control?
4. Describe helical CECT protocol for evaluation of chest.
5. Describe CT protocol evaluation for evaluation of acetabulum and hip.
6. What are advantages of digital radiography?
7. What is binary number system?
8. What is protocol for MB evaluation of female pelvis?
9. Describe techniques and post procedural care in fallopian tube recanalisation.
10. Discuss contrasts and rate of contrast injection for angiography.

