Reg. No.			

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2006

Friday, June 16, 2006				
Ti	me: 3 Hrs.	Max. Marks: 80		
Ø	Answer all questions.			
Ø	All questions carry equal marks.			
1.	Write short notes on Rotatory Anode tube.			
2.	Write short notes on structure of film (Gross section with Diagram).			
3.	What is development? Describe in detail the constituents of developer.			
4.	Write short notes on image intensifier.			
5.	Describe the production of X-rays.			
6.	What is characteristic curve? Describe with a figure.			

- 7. Write short notes on Auto transformer.
- 8. Write short notes on intensifying screens.



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THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2006

SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Saturday, June 17, 2006

Time: 3 Hrs.	Max. Marks: 80

- Write in detail about patient preparation, indications and contraindications of barium enema. 1.
- Write short notes on: 2.
- 2A. Sialography.
- Contrast media used in gastrointestinal tract other than barium. 2B.
- 3. Write short note on:
- 3A. Role of compression in IVU.
- Fallopian tube recanalistion.
- Write in detail about indications, contraindications and procedure of hysterosalpingography. 4.
- Classify contrast media and write in detail about contrast media toxicity. 5.
- 6. Describe following views for evaluating Patella:
- 6A. Skyline view.
- 6B. Lateral.
- 7. Describe lateral view of cranium and describe the Water's view positioning.
- 8. Describe the positioning and PA and lateral chest radiograph.
- 9. Write short notes on CT numbers.
- 10. Describe AP view of abdomen. Also describe the differences between AP view abdomen and KUB radiograph.



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.Sc. M.I.T. DEGREE EXAMINATION - JUNE 2006

SUBJECT: NEW IMAGING MODALITIES AND RECENT ADVANCES

	Monday, June 19, 2006				
Ti	me: 3 Hrs.	Max. Marks: 80			
Ø	Answer all questions.				
Ø	All questions carry equal marks.				
1.	What are the various contrast agents used in angiography? De	escribe rates of injection and			
	volume of contrast used in evaluation of abdominal aorta.				
2.	What are the various equipments used in angiography labora	atory? Describe the types of			
	catheters that can be used in angiography of brain.	,			
	and the table in angregation of the same				
3.	What are the indication, patient preparation for MR and contrain	dications for MR studies?			
٥.	what are the indication, patient preparation for wire and contrain	dications for with studies:			
4	Describe MD control for control of the first				
4.	Describe MR protocol for evaluation of knee joint.				
-	Desire Consideration of the Constant				
5.	Describe CT artifacts in detail.				
6.	Enumerate types of algorithms for image reconstruction. Describ	be anyone in detail.			
7.	What is the principle of ultrasound?				
8.	What are the different modes of ultrasonic display?				
9.	Discuss Digital fluoroscopy system.				



Describe CT protocol for evaluation of acetabulum and hip joint.

10.