

Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

THIRD SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: MIT 301: CARE OF PATIENTS IN DIAGNOSTIC RADIOLOGY

Thursday, June 15, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Major question:**

1. Explain various medical emergencies due to drugs and contrast media reactions.

(20 marks)

2. **Write short notes on:**

- 2A. Medical recording maintenances
- 2B. Routes of drug administration
- 2C. Patient care during barium enema procedure
- 2D. Transfer techniques for spine injury patients
- 2E. Special catheters
- 2F. Infection control procedures

(10 marks × 6 = 60 marks)



Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

THIRD SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: MIT 302: RADIATION EVALUATION AND PROTECTION IN DIAGNOSTIC RADIOLOGY

(2015 SCHEME)

Saturday, June 17, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Major question:

1. Discuss briefly the factors affecting the calculation for primary and secondary shielding. (20 marks)

- 2A. Discuss in detail the Computed tomography technical protective considerations.
- 2B. State 28th day rule and discuss its significances in radiation protection.
- 2C. Explain with diagram Thermoluminescence dosimeter.
- 2D. Discuss briefly the effect of filtration on the absorbed dose to the patient.
- 2E. Explain in detail Radiolysis of water.
- 2F. Discuss in detail acute radiation syndromes.

(10 marks × 6 = 60 marks)



Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

MANIPAL UNIVERSITY

THIRD SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: MIT 303: NUCLEAR MEDICINE IMAGING

Tuesday, June 20, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Major question:

1. Discuss briefly the production of radionuclides.

(20 marks)

2A. Discuss in detail myocardial scan.

2B. Discuss in detail preparation for DTPA.

2C. Describe annihilation and its effect in nuclear medicine.

2D. Describe the types of collimators used in gamma camera.

2E. Explain in detail internal radiation dosimetry.

2F. Discuss in detail isomeric transition and internal conversion.

(10 marks × 6 = 60 marks)

