

Reg. No.

MANIPAL UNIVERSITY

FIRST SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JANUARY 2017

SUBJECT: MIT 101: RADIOGRAPHIC PROCEDURES
(2015 SCHEME)

Monday, January 02, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Major question:

1. Mention the property of water soluble contrast media. Add a note on the protocol to be followed for safe use of IV contrast media.

(20 marks)

2A. Draw a labeled diagram of respiratory system with arterial supply. Explain the radiographic views to be performed to rule out upper respiratory tract.

2B. Write a note on renal calculus. Explain diuretic urogram in short.

2C. List the differences between PA and AP view. Explain cardio thoracic ratio in detail.

2D. What is BIRADS? Write a note on spatial resolution in mammography.

2E. Explain the view to demonstrate the petrous part of the temporal bone.

2F. Write a note on skeletal survey.

(10 marks × 6 = 60 marks)



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FIRST SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JANUARY 2017
SUBJECT: MIT 102: INSTRUMENTATION OF CONVENTIONAL AND SPECIALIZED
RADIOLOGY EQUIPMENT'S

Wednesday, January 04, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL the questions.

✍ Major question:

1. Describe x ray circuits.

(20 marks)

2. Write short notes on:

2A. Primary and secondary switches

2B. Earthing and its importance

2C. Battery powered generators

2D. Photo timers

2E. Magnetic and thermal relay

2F. Spot film devices

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

FIRST SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JANUARY 2017

SUBJECT: MIT 103: PRINCIPLES OF RADIOGRAPHIC EXPOSURE

Friday, January 06, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

☞ **Answer ALL the questions.**

1. Discuss briefly Automatic Processor Quality Assurances.

(20 marks)

2. **Write short notes on:**

- 2A. Effect of temperature and time on the developer solution.
- 2B. Geometric unsharpness.
- 2C. Production of photographic emulsion.
- 2D. Describe the speed and contrast of the radiographic screen and film.
- 2E. Chemical reaction in the development process.
- 2F. Quantum mottle.

(10 marks × 6 = 60 marks)

