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MANIPAL UNIVERSITY

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

SUBJECT: MIT 301: CARE OF PATIENTS IN DIAGNOSTIC RADIOLOGY

Tuesday, January 03, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Major question:**

1. Explain in detail care and safety for pediatric and geriatric patients during radiological procedure.

(20 marks)

2. **Write short notes on:**

2A. Informed consent

2B. Professional Organizations

2C. Obtaining vital signs

2D. Standard Principle of surgical asepsis

2E. Patient care during cardiac arrest

2F. Mummy wrap technique

(10 marks × 6 = 60 marks)



MANIPAL UNIVERSITY**THIRD SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JANUARY 2017****SUBJECT: MIT 302: RADIATION EVALUATION AND PROTECTION IN DIAGNOSTIC RADIOLOGY****(2015 SCHEME)**

Thursday, January 05, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Major question:**

1. Discuss briefly radiation signage's with the help of diagrams.

(20 marks)

2A. Discuss in detail cell radio-sensitivity.

2B. Discuss briefly the radiation area monitoring device.

2C. Describe CT dose index.

2D. Describe the objectives of radiation protection. Add a note on MPD.

2E. Explain in detail radiation dose - response curves.

2F. Discuss the significances of air gap techniques in radiation dose.

(10 marks × 6 = 60 marks)



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MANIPAL UNIVERSITY

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

SUBJECT: MIT 303: NUCLEAR MEDICINE IMAGING

Saturday, January 07, 2017

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Major question:**

1. Discuss in detail with diagram SPECT. Add a note on the radiopharmaceutical used in SPECT.

(20 marks)

- 2A. Discuss in detail bone scintigraphy.
2B. Discuss in detail transport and storage of radioactive materials.
2C. Describe in detail reactors produced radionuclides.
2D. Discuss the ideal features of radiopharmaceuticals.
2E. Explain in detail gas filled detectors.
2F. Discuss in detail Specific activity.

(10 marks × 6 = 60 marks)

