

Question Paper

Exam Date & Time: 04-Dec-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. MEDICAL IMAGING TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: BMIT 101 - RADIATION PHYSICS

(2016 RV SCHEME)

Wednesday, December 04, 2019 (14.00 - 17.00)

Answer ALL questions.

Draw the diagrams whenever required.

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Describe in detail about types of grids with diagrams. (20)
- 2) Describe the interaction of X rays with matter with diagrams. (20)
- 3) X ray beam restrictors (10)
- 4) Circuit breakers (10)

- 5) **Write short notes on:**
 - 5A) Write about grid controlled X ray tube (5)
 - 5B) Latent image (5)
 - 5C) High voltage circuit (5)
 - 5D) Main voltage compensator (5)
 - 5E) Exposure factors (5)
 - 5F) High tension cables (5)

- 6) **Write briefly on:**
 - 6A) Electromagnetic spectrum (2)
 - 6B) Earthing (2)
 - 6C) Anode heel effect (2)
 - 6D) Penumbra (2)
 - 6E) Intensifying screen (2)

---End---

Question Paper

Exam Date & Time: 05-Dec-2019 (02:00 PM - 04:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B.Sc. MEDICAL IMAGING TECHNOLOGY DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: BMIT 103 - RADIOGRAPHIC POSITIONING AND TECHNIQUES (PART 1)

(2016 RV SCHEME)

Thursday, December 05, 2019 (14.00 - 16.00) Answer all the

question.

Draw diagram wherever required.

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Discuss in detail the characteristic of radiographic image quality. (10)
- 2) List the radiographic projection taken for trauma routine of shoulder joint. Explain in detail neer's method. (10)
- 3) **Discuss the following:**
 - 3A) Jones method (5)
 - 3B) Y view of scapula (5)
 - 3C) Fisk's projection (5)
 - 3D) Skeletal system (5)
- 4) **Write short notes on:**
 - 4A) Peak Kilovoltage (2)
 - 4B) Frog leg projection (2)
 - 4C) Contrast (2)
 - 4D) Carpel tunnel projection (2)
 - 4E) Sharpness (2)

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