## **Question Paper**

Exam Date & Time: 07-Jun-2019 (02:00 PM - 04:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. MEDICAL IMAGING TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE 2019 SUBJECT: BMIT 102 - RADIOGRAPHIC POSITIONING & TECHNIQUES - PART II (2016 RV SCHEME) Friday, June 07, 2019 (14.00 - 16.00)

Duration: 120 mins. Marks: 50 Answer the following questions: Explain briefly the anatomy of Gastro-Intestinal Tract. Write a note on Lateral Decubitus (10)1) Projection. 2) Discuss in detail about Paediatric Radiography. (10)3) Discuss the following: 3A) AP Lordotic projection for chest (5)3B) Judd method for cervical spine (5)3C) Anatomy of Urinary system (5) 4) Write short notes on: Technical aspect for chest imaging 4A) (3)Axio-lateral oblique projection for mandible (3) 4B) Cervical spine weight bearing techniques 4C) (3)Lumber Spine AP projection 4D) (3)4E) List the names of cranial and facial bones (3) ----End-----

## **Question Paper**

Exam Date & Time: 11-Jun-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. MEDICAL IMAGING TECHNOLOGY DEGREE EXAMINATION - MAY/JUNE 2019 SUBJECT: BMIT 104 - BASIC PHYSICS IN COMPUTED TOMOGRAPHY & ULTRASONOGRAPHY (2016 RV SCHEME)

Tuesday, June 11, 2019 (14.00 - 17.00)

Answer all the questions.

Draw diagrams wherever required.

Marks: 100 Duration: 180 mins. Answer all the questions. Define artefact. Write in detail names, causes and remedies for Computed Tomography artefacts. (20)1A) Doppler principle and its significance in ultrasonography. Write briefly about Doppler instrumentation. (20) 1B) 2A) First four generations of Computed Tomography with diagrams. (10)2B) Ideal features of ultrasound contrast media. Describe types of ultrasound contrast media. (10)3) Write short notes on: Slip ring technology 3A) (5)3B) Characteristics of ultrasound (5) CT collimators 3C) (5)Reverberation artefact 3D) (5) 3E) Xenon gas detectors (5)3F) Ultrasound transducer diagram and components (5)4) Answer the following questions: CT windowing 4A) (2)4B) Piezoelectric effect (2)Advantages of CT 4C) (2)Applications of Doppler ultrasound 4D) (2)CT pixel and voxel 4E) (2)

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