



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(MRIT)-2022

Course Name – Radiographic Techniques of CT Including Image Interpretation

Course Code - BMRITC403

(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the contrast agent administered intravenously to enhance visualization of vascular structures and lesions in CECT brain protocol
 - a) Gadolinium
 - b) Iodine
 - c) Barium
 - d) Technetium
- (ii) Choose the the purpose of using contrast for CT neck
 - a) To increase radiation exposure
 - b) To highlight structures and enhance visibility
 - c) To reduce imaging time
 - d) To eliminate the need for interpretation
- (iii) Choose the correct Indication of Pulmonary Angiography
 - a) Pulmonary embolism
 - b) Pulmonary hypertension
 - c) Suspected pulmonary thrombus
 - d) All of theses
- (iv) Choose among the following which is NOT typically included in a routine chest CT protocol
 - a) Lung apices
 - b) Adrenal glands
 - c) Upper abdomen
 - d) Chest wall
- (v) State the primary advantage of using a low-dose chest CT protocol
 - a) Improved image quality
 - b) Reduced radiation exposure
 - c) Faster scan time
 - d) Enhanced soft tissue contrast
- (vi) Select the appropriate term for the process of reconstructing CT images into three-dimensional representations of the chest
 - a) Multiplanar reformation (MPR)
 - b) Volume rendering
 - c) Curved planar reformation (CPR)
 - d) Surface rendering
- (vii) Cite among the following patient factors is NOT typically considered before performing a routine abdomen CT protocol
 - a) Age
 - b) Weight
 - c) Allergies
 - d) Blood pressure

Summarize the process of performing a CT fluoroscopy

(5)
