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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MRIT)-2021

Course Name – Quality Control in Radiology and Radiation Safety

Course Code - BMRIT404

(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) Describe the purpose of the weekly quality control test for digital radiography systems
 - a) To evaluate image quality
 - b) To monitor patient dose
 - c) To ensure proper collimation
 - d) To perform routine maintenance
- (ii) Identify the components of the annual quality control test for mammography units
 - a) Compression force and image quality
 - b) Tube current and voltage
 - c) Slice thickness and position
 - d) Exposure time and dose
- (iii) Select the QA test in which Focal spot test tool with non-screen film cassette is used
 - a) Focal spot size
 - b) FFD
 - c) FID
 - d) FOV
- (iv) Select the material which is use to manufacture CT phantom
 - a) Metal
 - b) Water
 - c) Water equivalent material
 - d) All
- (v) Identify the recommended monthly limit to the emryo
 - a) 0.05 mSv
 - b) 0.1 mSv
 - c) 0.5 mSv
 - d) None
- (vi) Select the correct meaning of ALARA.
 - a) Accepted Lowest Achievable Radiation Alarms
 - b) Allowable Levels of Accepted Radiation
 - c) As Long as Radiation is Allowable
 - d) As Low As Reasonably Achievable
- (vii) Name the essential components of a quality assurance program in radiology
 - a) Quality control testing
 - b) Imaging protocol standardization
 - c) Quality assurance review
 - d) All of these
- (viii) Select the correct answer, Somatic effects further classified by categories?
 - a) 2
 - b) 3
 - c) 4
 - d) 5

