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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MRIT)-2019/B.Sc.(MRIT)-2020

Course Name – Clinical Radiography Positioning Part 2

Course Code - BMRIT402

(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) Choose the correct option for tomosynthesis-
- | | |
|--|---|
| a) Tomosynthesis is a three-dimensional mammogram that uses X-rays to obtain sectional images of the abdomen | b) Tomosynthesis is a three-dimensional mammogram that uses X-rays to obtain sectional images of the breast |
| c) Tomosynthesis is a two-dimensional mammogram that uses X-rays to obtain sectional images of the breast | d) none of these |
- (ii) choose the right option for section 302 of Indian penal code is for: -
- | | |
|------------------|------------------------------|
| a) Rape | b) Murder |
| c) Grievous hurt | d) Attempt to commit suicide |
- (iii) choose the right option to determine the age of a 16-year-old girl, which of the following is to be radiographed?
- | | |
|----------|----------|
| a) Wrist | b) Knee |
| c) Ankle | d) Elbow |
- (iv) select the right option for magnified image can be produced by increasing the
- | | |
|----------------------------|----------------------------|
| a) object to film distance | b) film to source distance |
| c) both (a) and (b) | d) none of these |
- (v) select which of the following is involved in obtaining spatial relation?
- | | |
|-----------------|----------------------|
| a) Focal length | b) Binocular vision |
| c) Polarization | d) Telescopic vision |
- (vi) select which of the following doesn't come under the category of depth perception?
- | | |
|------------------|--------------------|
| a) Accommodation | b) Head parallax |
| c) Divergence | d) Retinal display |
- (vii) select the appropriate option for parieto-orbital oblique projection also known as
- | | |
|----------------------|----------------------------|
| a) Rhese projection | b) Lauenstein's projection |
| c) Waters projection | d) Judet projection |

- (viii) select the correct option to demonstrate atlas and axis in AP projection, the patient is asked to
- a) Breathe normally
b) Close the mouth
c) Open the mouth
d) Move the head side-to-side
- (ix) Identify which of these is contraindication for X-ray examination?
- a) Pregnancy
b) Metallic foreign body
c) Adiposity
d) No contraindications
- (x) choose the right option; Mammograms most often detect breast cancer in which age group?
- a) 20s
b) 20s
c) 20s
d) 50s and older
- (xi) Choose correct option for X-rays which can penetrate through longer distances in substance are called
- a) soft X-rays
b) continuous X-rays
c) hard X-rays
d) none of the these
- (xii) Select the correct statement, in forensic radiology the radiographs must be taken
- a) before dissection
b) after dissection
c) both are wrong
d) none of these
- (xiii) choose correct option for Potential advantages of using a higher KV (90 rather than 70) in radiography include all of the following EXCEPT:
- a) increased patient exposure.
b) reduced x-ray tube heating.
c) shorter exposure times.
d) decreased area contrast.
- (xiv) choose which one of the following techniques will give a longer residual activity to a disinfectant during the weekly theatre clean?
- a) Leave to air dry after application
b) Rinse and wipe dry after application
c) Use a higher dilution rate
d) Dilute with hot water
- (xv) choose correct option for how often should theatre lights be cleaned?
- a) Daily
b) Between patients
c) Weekly
d) Monthly

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the indication, patient positioning, centering and technical factors for Caldwell view? (3)
3. Explain Stereoscopic radiography. (3)
4. Write a short note on high-kV/low-mAs technique? (3)
5. Write a short note on Forensic radiography? (3)
6. Write a short note on 10-day rule. (3)

OR

- Write a short note on T score and Z score. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write a short note on BI-RADS. (5)
8. Write a short note on DEXA in detail. (5)
9. Write a note on Forensic radiography in detail? (5)
10. Describe the indication, patient positioning, centering, technical factors, structure and evaluation criteria for Caldwell view? (5)
11. Explain Stereoscopic radiography in detail. (5)
12. Write a short note on Acute abdomen x-rays series with diagram. (5)

OR

- Write a short note on Sella turcica? (5)