

BLDE (DEEMED TO BE UNIVERSITY)

July-2022

B.SC MEDICAL IMAGING TECHNOLOGY EXAMINATION

[Time: 1 ½ Hours]

[Max. Marks: 50]

V SEMESTER

PAPER – I (RADIOGRAPHY & SPECIAL PROCEDURES)

QP CODE: 8511

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Brief Answer Questions:

3 x 6 = 18

Describe the X ray projections under following headings:

- a) FFD b) Centering point c) size of cassette
d) Bucky/non-Bucky e) Position of patient f) Extent of image
1. Wrist Carpel tunnel view
 2. Mandible oblique view
 3. Chest decubitus view
 4. Caldwell's view of skull
 5. Cervical spine oblique view.
 6. Atlanto-axial open mouth view.

Short Answers Questions:

2 x 6 = 12

7. Name the X ray views for paranasal sinuses & mention which sinuses are best visualized in each view.
8. Name the views used for temporal bone.
9. Name commonly used phosphor in CR system?
10. Write two advantages of DR over CR?
11. Name four components of PACS.
12. Write two limitations of conventional radiography?

Draw Labeled Diagram:

4 x 3 = 12

13. Draw a neat labelled diagram of knee joint.
14. Draw a neat labelled diagram of radius.
15. Draw a neat labelled diagram of tibia.

Say True or False :

1x4 = 4

16. In scaphoid view of wrist centering point is midway between carpals(T/F) –
17. Water's view is antero-posterior view(T/F)–
18. In Towne's view orbitomeatal line is parallel to floor(T/F) -
19. Schuller's view is best for visualization of mastoid(T/F) -

Fill in the blanks

1 x 4 = 4

20. Full form of PACS is _____.
21. The centring point in PA view of chest is _____.
22. In lordotic chest view, the degree of dorsiflexion is _____.
23. Schuller's view is for better visualisation of _____.

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B.SC MEDICAL IMAGING TECHNOLOGY EXAMINATION

[Time: 1 ½ Hours]

[Max. Marks: 50]

V SEMESTER PAPER – II (MRI) QP CODE: 8512

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Brief Answer Questions:

6 x 3 = 18

1. Describe longitudinal & transverse magnetization.
2. What is T1 and T2 relaxation time?
3. Write its salient features of T2 relaxation time.
4. What is a coil? What are types of coils?
5. What is aliasing artefact in MRI? How it can be corrected?
6. Define TR & TE.

Short Answers Questions:

6 x 2 = 12

7. What are the advantages of permanent magnets in MRI?
8. Enumerate various parts of MRI machine.
9. Enumerate the sequences used in MRI brain study.
10. What is T1, T2 & PDW image?
11. Write about RF coils.
12. Name the phases used in liver CECT.

Draw Labeled Diagram:

3 x 4 = 12

13. Draw & label cross sectional anatomy of arch of aorta.
14. Draw & label sectional anatomy of lung lobes.
15. Draw & label sectional anatomy of KUB.

Say True or False:

4 x 1 = 4

16. Fat is suppressed on STIR (T/F) -
17. T1 is about 5-10 times longer than T2 (T/F) -
18. Fluid appears bright on T2 (T/F) -
19. Right lung has three lobes (T/F) -

Fill in the blanks

4 x 1 = 4

20. Full form of STIR is _____.
21. FFE sequence is for identification of _____ & _____.
22. Water appears dark on _____ sequence.
23. Left common carotid artery is branch of _____.