

June-2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Imaging Technology

[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - I (Advanced Radiographic Techniques)

QP CODE: 8525

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Briefly explain in detail about the various Radiographic Techniques and views for airway foreign body.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Various views of skull.
3. Discuss about barium procedures in brief.
4. HSG.
5. Radiographic techniques to image Femur.
6. Routine abdomen radiography positioning.
7. Radiographic imaging to demonstrate Chance fracture.
8. Explain about the IVP.
9. Write notes on frontal view of skull.
10. Basic views for knee joint.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. RGU.
12. Radiographic demonstration of vertebral body fractures.
13. Self-rectification circuit
14. Elbow joint views.
15. Radiographic views for sternum.
16. Water's view.
17. Radiographic demonstration of calcaneal fractures.
18. Transformers.
19. X ray Abdomen – techniques and positioning.
20. Radiography techniques of Mammography.
21. Radiographic techniques for carpal bone fractures.

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V SEMESTER

PAPER - II (Equipment for Medical Imaging)

QP CODE: 8526

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Write about historical developments, principle, applications and role in medicine of MRI.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. TOF MR Angiography.
3. MRI coils.
4. Gradient echo sequences.
5. Harmonic imaging.
6. Write about CT tube and draw it neatly and label the parts.
7. What is Doppler Effect and its clinical application?
8. Write about T1w, T2w & STIR images.
9. CT angiography vs DSA angiography.
10. Radiation protection in CT imaging.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Transducer frequency.
12. Piezoelectric effect.
13. Fusion imaging in PET-CT.
14. C-arm uses.
15. Dose reduction in CT.
16. T2 decay,
17. Common PET radioisotopes.
18. Half-life of radioactive substance.
19. Tissues which are bright on T1W images.
20. Types CT contrast agents.
21. Precession frequency.

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PAPER - III (Special Procedure in Medical Imaging)

QP CODE: 8527

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain The Radiographic Procedure Of Retrograde Urethrogram. Under The Following Headings
a) Definition b) Patient Preparation c) Indication d) Contraindication e) Contrast Used
f) Equipment Used g) Patient Position h) Exposure Factor i) Procedure In Brief

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are the indications for the IVU procedure
3. Difference between RGU and MCU
4. What is Bronchography? Write patient preparation for the Bronchography procedure
5. Explain hystero salpangiography procedure
6. Explain cerebral angiography
7. Explain barium enema
8. What are the contraindications for the ERCP procedure
9. Indication for the abdominal angiography
10. TLD

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. DICOM
12. Write the patient preparation for the PTBD procedure
13. Definition of barium swallow, barium meal, barium enema
14. What type of contrast used in the x-ray procedure name them
15. PACS
16. What is cardiac angiography and write two indication
17. What are the radiation protection used in the fluroscopy
18. What are the equipment used in the IVU procedure
19. What is percutaneous Tran's hepatic cholangiogram? And how much exposure should give during the procedure
20. What are the contraindication for the percutaneous trans hepatic cholangiogram procedure
21. Background Radiation

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V SEMESTER

PAPER – IV (MRIT Directed Clinical Education III)

QP CODE: 8528

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Write about preparation of patients and care of patients in ultrasonic scan

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Preparation of hands for aseptic procedures
3. Care for epilepsy
4. Handling of geriatric patients
5. Procedure in the event of an accident in radiology department
6. Importance of records maintenance
7. Radiography of pregnant patients
8. Radiography of children
9. Uses of pressure injector in ct scan?
10. What is MRI safety?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Correct method of putting sterile gloves
12. Importance of measuring weight of patients before radiography scan
13. Thyroid scan
14. Handling of infections of patients
15. Shifting of patients
16. Methods of measuring temperatures
17. Define blood pressure and normal value
18. Angiography
19. Handling of RTA patients
20. Application of asepsis
21. Patients vital signs