

JAN-2024

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. Discuss about barium procedures in brief.
3. Radiographic techniques to image Femur.
4. Routine abdomen radiography positioning.
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. Radiographic demonstration of calcaneal fractures.
12. Transformers.
13. X ray Abdomen – techniques and positioning.
14. Radiography techniques of Mammography.
15. Radiographic techniques for carpal bone fractures.
16. Transformers.
17. X ray Abdomen – techniques and positioning.
18. Radiographic demonstration of vertebral body fractures.
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 USG.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. CT artifacts.
3. Phase contrast MR angiography.
4. CT angiography vs MR angiography.
5. Safety measures in MRI.
6. Describe briefly about development of USG machines.
7. Limitations and uses of MRI.
8. Describe about dual energy CT.
9. Write about CT contrast agents.
10. Adverse effects of CT contrast and its management as Technician.
11. Radiation safety while performing DSA.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

12. Chemical shift.
13. Cyclotron.
14. Gamma camera.
15. Transducers.
16. FLAIR sequence.
17. STIR sequence.
18. Larmor equation.
19. Relaxation.
20. T1 recovery.
21. Common PET radioisotopes.
22. Half-life of radioactive substance.

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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 barium swallow. 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. Types of transducers
3. What are the contrast used in the ERCP procedure name the equipments
4. Contraindications of aortography procedure
5. Explain percutaneous transhepatic cholangiogram procedure
6. What are the radiation protection used during HSG procedure
7. Explain bronchography procedure
8. Explain arthrography procedure
9. Explain abdominal angiography
10. Contraindications for the HSG procedure

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Definition of RGU, MCU.
12. Patient preparation for the dilation procedure
13. TLD
14. Name the equipment used in the percutaneous procedure
15. What is cardiac cauterization name two contraindications
16. Name the indications of pyelography procedure
17. Name the contrast used in the X-ray, CT, MRI
18. Applications for transducers
19. What is IVU name two indications
20. What is PTBD? Write the equipment names
21. What is barium swallow.name two contraindications.

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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. What are the ethics of medical practice radiography professionalis

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is general preliminaries to the moving chair and stretcher patient examination?
3. Write about preparations of patient before ct scan
4. What is trolley layout in a fluoroscopic room during abarium meal session?
5. Write preparation of patient in bronchography examination
6. Care by the radiographer of patient on traction
7. Medicolegal aspects of radiographer work
8. Methods of measuring of blood pressure
9. Methods of administering oxygen
10. Preparation of cect patients

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Handling of pregnant woman
12. Define pulse and its normal value
13. Communicable disease ,define and types
14. What is fluoroscopy?
15. Handling of pediatric patients
16. Uses of sucker
17. Cardiac stimulation
18. Equipment for emergencies
19. The ten day rule
20. Uses of gonad shields
21. Handling of trauma patients