

# BLDE (DEEMED TO BE UNIVERSITY)

## B.Sc. Medical Imaging Technology

Day 26

[Time: 3 Hours]

[Max. Marks: 80]

### III SEMESTER

#### PAPER - I (Physics & Medical Imaging - I)

**QP CODE: (8325)**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### Long Questions

10X1 = 10 Marks

1. Write in detail about the production of X-Rays?

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Name the Four Types of Interaction of Radiation With Matter?
3. What is the Function of the Cassette?
4. What is Attenuation of X-Rays, And Factors Affecting the Attenuation?
5. How The Image Quality Depends On The Size Of The Focal Spot, Explain In Details?
6. What Is Blur, How It Can Be Eliminated?
7. What Is Tube Housing?
8. What Is Electromagnetic Radiation?
9. Write about different Types of X-Ray Tubes?
10. Explain about Anode Angle And Line Focus Principle?

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is the Function of The Focusing Cup?
12. Describe Emulsion Layer of a Film?
13. What is HVL?
14. What is Collimation? Name The Three Different Types Of Beam Limiting Devices?
15. Where The Magnification Technique Is Used?
16. What Are Stationary And Moving Grids?
17. Upon What Factors The Scattered Radiation Is Dependent?
18. Differentiate The Films Based On The Types, Coating, Uses and Speed And Definition?
19. What are the different Types of X-Ray Tubes used in Radiology?
20. Draw a neat labelled diagram of Film?
21. What are the equipment's present in the X-ray room?

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## **B.Sc. in Medical Imaging Technology**

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### **III SEMESTER**

### **PAPER - II (Radiographic Techniques I)**

**QP CODE: 8326**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

#### **Long Questions**

**10X1 = 10 Marks**

1. Explain about Fluoroscopy instrumentation

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Types of transducer
3. Explain about body planes.
4. Write a Radiographic positioning of chest lordotic view.
5. Write about Equipment's of C arm.
6. Draw a neat labeled diagram of mammography machine.
7. Draw a diagram of radiation protection devices used during radiography.
8. What are the filters used in mammography?
9. Radiographic positioning of chest AP view
10. Indications, contraindications, patient preparation for elbow joint.

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Write about ball catchers view
12. Draw a diagram of knee joint
13. Radiographic positioning of PBH
14. What are the special views of foot x ray
15. Draw the diagram of body sections and write on it
16. Radiographic technique of Shoulder joint AP view.
17. Write a note on carpal bones
18. Radiographic technique of ankle lateral view
19. Write a positioning of femur lateral view
20. Indications , contra indications of leg AP and lateral view
21. What is piezoelectric effect.

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## B.Sc. in Medical Imaging Technology

*Jan-26*

[Time: 3 Hours]

[Max. Marks: 80]

### III SEMESTER

### PAPER - III (Darkroom Techniques)

QP CODE: 8327

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

#### Long Questions

10X1 = 10 Marks

1. Draw a neat labelled diagram and explain about construction & types of cassettes?

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain dry & wet section in dark room.
3. Explain about Dark room accessories.
4. Write about Formation of latent image.
5. Care of films.
6. Explain about intensifying screen with neat diagram
7. Types of Rollers used in automatic processor.
8. Explain about dental film with neat diagram.
9. Safe film handling test.
10. Explain about developer temperature and developer time in automatic processor.

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Planning & Layout of darkroom.
12. What is curved cassette? What are the uses of curved cassette?
13. Write about Physical & chemical properties of silver halide?
14. Remedy for motion unsharpness.
15. Explain loading and unloading of cassettes in darkroom.
16. Types of films.
17. Write advantages & disadvantages of direct exposure film.
18. What are the advantages of PQ developer?
19. Types of darkroom entrance.
20. What is fog? Types of fog.
21. What is luminescence?

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## B.Sc. in Medical Imaging Technology

Score 26

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### III SEMESTER

#### PAPER – IV (BMIT directed clinical education I)

**QP CODE: 8328**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

#### Long Questions

10X1 = 10 Marks

1. Explain in brief about Radiographic Positioning Terminologies?!

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write about Anatomy of Spine?
3. What is Manual and Automatic film processing technique?
4. Write in brief about Rotating X-ray tube?
5. Write the Radiographic techniques of Hand AP, and Lateral?
6. Draw a neat labeled diagram of Forearm and Hand?
7. Write the Radiographic techniques of Chest AP and Lateral?
8. Write about structural classification of joint?
9. Write about Control panel & Lead Equipments?
10. Write the Radiographic techniques of Forearm AP, and Lateral?

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write in brief about History of X-ray?
12. How many carpal and tarsal bones are there and name them?
13. Write about radiographic techniques of Ankle joint lateral view?
14. What precautions have to take for the Care of pregnant women?
15. Write the Radiographic techniques of Wrist joint Lateral?
16. Radiography of pediatric patients?
17. Draw a neat labeled diagram of Gas tube
18. How many facial bones are there and name them?
19. Draw a neat labeled diagram of Coolidge tube
20. Draw a neat labeled diagram of Pelvis
21. Write the properties of X-ray?