

**BLDE (DEEMED TO BE UNIVERSITY)**

01/04/24

**B.Sc. Medical Imaging Technology**

[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. Draw neat and labelled diagram of the cross sectional of an X-Ray film and describe in details of each layer and its function?

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Write in Details about the Types of Films used in The Radiography?
3. What is the Function of The Cassette in Radiography?
4. Types of Filters?
5. How The Scattered Radiation Can Be Prevented Reaching The Film?
6. What is Latent Image?
7. What Is Characteristic Radiation?
8. What is Anode Heel Effect?
9. What is Unsharpness and How It Takes Place?
10. What is Radiographic Contrast ?

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is Stationary Anode and Its Limitations?
12. Write the Function of Intensifying Screen?
13. Function of a Grid?
14. What is Added or Coherent Filter?
15. What is Rotating anode?
16. What is Filter?
17. What is Scattered Radiation?
18. What is Magnification Technique?
19. What are Indirect X-Ray Films?
20. What is Intensifying Screen?
21. What is Mas?

3/7/24

# BLDE (DEEMED TO BE UNIVERSITY)

## B.Sc. Medical Imaging Technology

[Time: 3 Hours]

[Max. Marks: 80]

### III SEMESTER

#### PAPER - II (Radiographics 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 the Pre and post processing technique of CT?

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are the Types of transducer used in ultrasound?
3. Draw a diagram of portable x-ray equipment?
4. Write about Mammography equipment's?
5. Draw a diagram of radiation protection devices used during radiography?
6. What are the Basic projections of calcaneum, explain any one projection?
7. Write about fluoroscopic equipment?
8. Write a radiographic positioning of Chest lordotic?
9. What are the Components of fluoroscopy?
10. Write a Radiographic positioning of leg AP, Lateral?

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. High KVP technique in chest radiography?
12. What is Veritable deformity? What are the routine views for the study?
13. Write about ball catcher's view?
14. Draw a labeled diagram of knee joint?
15. What are basic radiographic terminology?
16. Discuss the radiographic technique of Wrist AP and lateral?
17. Write about the Skyline view of patella?
18. Write a note on Carpal bones?
19. Write Radiographic positioning of leg lateral view?
20. Write about radiographic body planes?
21. Draw a diagram of protective devices?

5/07/2024

# BLDE (DEEMED TO BE UNIVERSITY)

## B.Sc. Medical Imaging Technology

[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. Explain in briefly about construction of film and its types?

#### Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Explain about the Formation of latent image?
3. Explain construction of intensifying screen and its types?
4. What is Silver Recovery?
5. Explain about safe light?
6. Types of cassettes?
7. Explain about dark room layout?
8. What about Automatic processor?
9. What is radiographic image and explain radiographic density & contrast?
10. Care and maintenance of x-ray film?

#### Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Mention the developing agents?
12. What are the Instruments used in dark room?
13. Artifacts of x-ray films?
14. What is luminescence?
15. Difference between Manual and Automatic processor?
16. What are Types of dark room entrance?
17. Draw labelled diagram of cassette?
18. What are the factors influencing film density?
19. Factors affecting to subject contrast?
20. What is Un-sharpness?
21. What is resolution and how it effects on x-ray film?

7 | 24

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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. Write the Radiographic techniques of Chest PA, Lordotic and Shoulder joint AP?

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. What is Cassette and Characteristics of Cassette?
3. Write the Radiographic techniques of Chest PA and Lordotic?
4. Draw a neat labelled diagram of Scapula and Humerus?
5. Draw a neat labelled diagram of darkroom and types of entrance?
6. Explain about Bremsstrahlung Radiation and Characteristic Radiation in brief?
7. Write the Radiographic techniques of Shoulder joint AP, and Axial?
8. How do you take care of screens and cassettes?
9. Write in brief about Stationary X-ray tube?
10. Draw a neat labelled diagram of Hip joint and Pelvis?

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Draw a neat labelled diagram of Coolidge tube?
12. Draw a neat labelled diagram of Foot and Ankle?
13. Radiography of pediatric patients?
14. Write the Radiographic techniques of Forearm Lateral?
15. Draw a neat labelled diagram of Pelvis?
16. Explain about basic terminologies in radiography?
17. What is control panel or console?
18. Draw a neat labelled diagram of Clavicle?
19. What are safelight, Dry bench and Wet bench?
20. Write the Radiographic techniques of Hand Lateral?
21. How many carpal and tarsal bones are there and name them?