

BSC
MET - III

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Imaging Technology

Jan-2023.

[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 different types of Grids and their different characteristics

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Draw the cross sectional diagram of Intensifying Screen and label it and describe.
3. Line Focus Principal,
4. What is Stator and What is Rotar of Rotating Anode Tube.
5. The Phospers material used in the intensifying screen
6. Heel Effect,
7. Nature of X-ray.
8. What happens when focused grid is placed in a reverse way and x-ray tube is off centred
9. The Function of oil in tube shielding
10. What is geometrical unsharpness and how it can be minimized.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Line Focus Principal,
12. What is the difference between Mammography X-Ray Tube and ordinary X-Ray tube?
13. Draw the crosses sectional diagram of Intensifying Screen and labels it and describe.
14. What is the significance of kVp and mA?
15. What is Stator and What is Rotar of Rotating Anode Tube.
16. The Function of oil in tube shielding
17. What is the function of X- ray cassettes used in Radiology?
18. What is grid Ratio, Grid Lattice, and Grid factor,
19. Attenuation of X-Ray beam
20. Name the different types of interaction of Radiation with Matter.
21. How the scattered radiation can be minimized.

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III SEMESTER

PAPER - II (Radio Graphic 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. 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. HSG.
4. Radiographic techniques to image Femur.
5. Routine abdomen radiography positioning.
6. Radiographic imaging to demonstrate Chance fracture.
7. Explain about the IVP.
8. Write notes on frontal view of skull.
9. Basic views for knee joint.
10. RGU.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

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

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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. Define dark room and describe about various types of darkroom entrances. Enumerate the differences between Latent and Manifest images.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Why is ventilation of the dark room is important?
3. What are the types of door system?
4. What is Dark Room Layout?
5. What is the function of developer solution?
6. Mention any three Emulsion Materials?
7. What is Intensification Factor?
8. Enumerate any four uses of IV contrast media?
9. Mention the steps of automatic processing.
10. Enumerate components of Image Quality?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is darkroom?
12. What are the two technique used for film processing?
13. What are the types of film processing?
14. What are the types of filters used in the darkroom?
15. What are the types of safelight in the darkroom?
16. Developing agents
17. What is the pH value of developer solution? And optimum temperature of developer
18. What are the ingredients of fixer solution?
19. Laser Camera.
20. Green sensitive film.
21. Processing faults.