BS WIT

JAN-2024

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Imaging Technology

[Time: 3 Hours]

[Max. Marks: 80]

HI 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. How the X-Rays are produced. Describe in details.

Short Essays: (Any - 8)

 $5 \times 8 = 40 \text{ Marks}$

- 2. Write down the properties of X-Rays.
- 3. Describe single coated x-ray fill with diagram.
- 4. What is grid and discuss types of grid?
- 5. Factors attenuation Factors off
- 6. Name the four types of Interaction of X-rays with matter.
- 7. X-ray tubes.
- 8. What is cassette? Its uses. What are the types of cassettes used in your departments?
- 9. Effects of scattered Radiation
- 10. Name the different types of films used in X-ray Department.

Short Answers: (Any - 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. What is moving grid?
- 12. Functioning of Focusing cup.
- 13. Anode Heel Effect
- 14. What is Line focused Principle
- 15. What is Anode Angle or Beveled angle
- 16. What is grid Lattice, What is grid ratio, what is grid factor
- 17. What is radiographic Contrast?
- 18. How the Scattered radiation can be reduced.
- 19. What is energy of Radiation?
- 20. What is Macro-radiography?
- 21. What is un-sharpness and blurring

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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. Explain in detail with reference to aim, indication and choice of machine and exposure factors involved in the radiography of thoracic spine.

Short Essays: (Any - 8)

 $5 \times 8 = 40 \text{ Marks}$

- 2. Dental radiography.
- 3. Carpel tunnels view.
- 4. Bed side radiography.
- 5. Views for shoulder joint.
- 6. Towne's view.
- 7. Stryker's view.
- 8. Soft tissue radiography.
- 9. Radiographic imaging to demonstrate Bennett's fracture.
- 10. Principle of stereo radiography.

Short Answers: (Any – 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. Write the projection to demonstrate Zygomatic bone.
- 12. Oblique view of Hand.
- 13. Elbow axial view.
- 14. Lateral view for coccyx.
- 15. Lordotic view.
- 16. Sub mento vertical view.
- 17. AP view of sacrum.
- 18. Ten day rule.
- 19. Define Lateral decubitus projection.
- 20. What is Macro-radiography
- 21. What is High and Low KV technique

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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. What are the equipment's of darkroom? Write the differences between automatic processor and manual processor.

Short Essays: (Any – 8)

 $5 \times 8 = 40 \text{ Marks}$

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

Short Answers: (Any – 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. What is darkroom?
- 12. What are the two technique used for film processing?
- 13. What are the types of filters used in the darkroom?
- 14. What are the types of safelight in the darkroom?
- 15. Describe cassette design
- 16. What are the ingredients of fixer solution?
- 17. What are the types of safe light in the dark room?
- 18. Mention the steps of automatic processing.
- 19. Explain safelight
- 20. What is the function of developer solution?
- 21. Latent image.