

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. Explain in detail about dental equipment and bitewing radiography?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write the Advantages of macro radiography?
3. Explain the Anatomy of teeth?
4. Explain MLO radiography?
5. Explain working principle of panoramic image formation?
6. What is the Radiation protection in ward radiography?
7. Explain different target and filters used in mammography?
8. Explain risk of infection and risk of explosion in Operation Theater?
9. Write the Principles of macro radiography?
10. What are the Advancements in portable x-ray unit?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is ward radiography?
12. Write Indications for OPG?
13. What is Palmer notation?
14. Write Indications of Mammography?
15. Explain Lateral oblique of the mandible?
16. Applications of macro radiography?
17. What is Mammography?
18. What is distortion? Types of distortion?
19. Draw a neat labelled diagram of breast?
20. Explain about BIRADS?
21. What is magnification factor?

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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 in details about the generations of CT machine and advances.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is fusion technology?
3. What is Nuclear Imaging? How the 3d images are captured.
4. What is PET?
5. Draw neat and labelled diagram of Transducer? List the different types of transducers used in radiology?
6. Interaction of US with matter (tissue)
7. What is phase array probe or Electronic probe?
8. What is Acoustic impedance?
9. What is Dual energy (dual spectrum) CT.
10. MRI advantage over computed tomography

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is cyclotron?
12. What is annihilation?
13. What are the advantages of PET over MRI and CT?
14. Why CT-PET or CT-MRI?
15. What is Scanned projection radiography (SPR), or "scout view" in CT
16. What is beam steering?
17. What is MIS, RIS, and PACKS?
18. Role of USG in medicine
19. What is CBCT?
20. New advances in MRI scanner.
21. Write a note on Digital subtraction angiography

6/1/26
Jan-26

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V SEMESTER

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 in detail about IVU procedure with a neat diagram

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Discuss about Fistulogram
3. Define angiography? Write an indications, contra indication and patient preparation for angio?
4. What is transducer and write its principle?
5. PTBD
6. Classification of contrast media
7. Write a note on embolization
8. Explain barium meal
9. What is Myelography? write the technique of lumbar Myelography
10. Discuss maturing cystourethrography study

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write a SELDINGER TECHNIQUE in a short note
12. What is contrast media and its types
13. Instruments used in HSG
14. Discuss about bronchography tech in a short note
15. Write about iodinated contrast media
16. FNAC
17. Define RGU and write its indications, contra indications
18. What are the indications and contra indications of BMFT
19. Write a short note on barium swallow
20. What is cauterization?
21. Difference between single contrast and double contrast

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V SEMESTER

PAPER - IV (BMIT 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. Explain in brief about the anatomy of brain with diagram?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is Precision and Larmor Equation?
3. Explain about types of transformers?
4. What is CT number? Write the CT numbers of human body?
5. Explain about the Deep structures within the brain?
6. What are T1 and T2 Relaxation?
7. Write about Patient safety in MRI?
8. Write about salivary glands?
9. Write about Cranial Nerves with diagram?
10. Explain about Pressure Injector?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is the Basic Principal of Tomography?
12. What is Slip Ring Technology?
13. Write the difference between T1 & T2 Relaxation?
14. Write the Radiographic technique of Skull Lateral?
15. What is Maxillary sinus?
16. What is Gradient system?
17. Write about Cerebrum?
18. Write about Breast Parenchyma?
19. Write the Radiographic technique of Elbow AP?
20. Write about Cerebellum?
21. What is Sphenoid sinus?