

11/7/26
PM

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in 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. Draw a neat labelled diagram of mammary gland and explain CC and MLO?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Applications of macro radiography.
3. CBCT.
4. Periapical radiography.
5. Explain difference between mobile and portable radiography.
6. Explain the principles of macro radiography.
7. Explain in detail about mammography equipment.
8. Radiation precaution in ward radiography.
9. Explain dental formula.
10. Explain in detail about mobile intensifier unit.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Indications of OPG.
12. General guidelines for mobile radiography.
13. Cephalometry.
14. Indications for occlusal radiography.
15. What is cordless mobile unit?
16. List the precautions taken during ward radiography in neonatal care unit.
17. Indications of mammography.
18. What is magnification?
19. What is geometric un-sharpness?
20. What is portable radiography?
21. What is distortion?

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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. How many magnets are used in MRI? Name them and uses / application.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Safety in MRI
3. Hazards in MRI
4. What are the basic sequences are there in MRI?
5. What are the modes of US images?
6. What is Radioactive Pharmaceutical tracer dye? How the Radioactive Pharmaceutical tracer is formed?
7. What is the main difference between Isotope scanning and Pet scanning?
8. Different devices which are fixed in the gantry of CT?
9. What is Pitch? Which Pitch is good for image Reconstruction?
10. What is Linear attenuation coefficient and CT or House field Number

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is Flat panel?
12. Larmour frequency?
13. Why hydrogen atom is used as a raw material for MRI?
14. What is phase array probe or Electronic probe?
15. Uses of MRI RF coil?
16. What is Image plate?
17. What is beam steering?
18. What is insonation angle?
19. What is Image Reader?
20. What is digital Imaging? What is the difference between CR and DR
21. What is DSA and how it works.

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B.Sc. Medical Imaging Technology

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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 angiography?
4. What is transducer and write its principle?
5. Write about PTBD?
6. Write the Classification of contrast media?
7. Write a note on Embolization?
8. Explain about barium meal procedure?
9. What is Myelography? Write the technique of lumbar Myelography?
10. Discuss about MCU study?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write a Seldingers technique in a short note?
12. What is contrast media and its types?
13. What are the Instruments used in HSG?
14. Difference between single contrast and double contrast?
15. Write about iodinated contrast media?
16. What is 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 Catheterization?
21. What are the equipment's used in the RGU?

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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 about Larmor equation.
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?