

7/24
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. Draw a neat labelled diagram of mammary gland and explain CC and MLO?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write the Applications of macro radiography?
3. What is CBCT?
4. Write about 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. Write about 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. Write the Indications of OPG?
12. General guidelines for mobile radiography?
13. What is Cephalometry?
14. Write the Indications for occlusal radiography?
15. What is cordless mobile unit?
16. List the precautions taken during ward radiography in neonatal care unit?
17. Write the 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. Draw the Diagram of Transducer and explain different types of transducers?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Safety protocols while performing MRI. What is Phase contrast MR angiography?
3. Safety measures in MRI?
4. Describe briefly about development of USG machines?
5. What are the Limitations and uses of MRI?
6. Describe about dual energy CT?
7. Write about MRI coils?
8. What is Gradient echo sequences?
9. What is Harmonic imaging?
10. Radiation safety while performing DSA?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is Double Energy CT?
12. What is Nuclear Imaging?
13. Interaction of us with Human Tissue?
14. What are the different types of MRI coils used in MRI examination?
15. What is DSA?
16. What is linear attenuation coefficient and formula of Housefield Number formula?
17. What is the functions of X, Y and Z gradient coils?
18. What is Acoustic Impedance, interface, velocity of US in different media?
19. What are the components present in CT gantry?
20. What is Application of US and role in Medicine?
21. What are the advantage of MRI over computed tomography?

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5/07/2024

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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. What are the Types of angiography? Explain cardiac angiography in briefly?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is Myelography? Write the technique of cervical Myelography?
3. Explain sialography study?
4. Write a note on Barium enema?
5. Explain the Venography study?
6. Discuss about Aortography?
7. Explain the study of Dacrocystography?
8. Discuss Fistulogram under the following?

A) Define B) Contra indications C) Indications D) Complications E) Patient preparation

9. Explain the anatomy of renal system with labeled diagram?
10. Write about Percutaneous Nephrostomy?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define RGU and write its indications & contra-indications?
12. Write a Seldingers technique in a short note?
13. Write about transducer?
14. Write about positive contrast media?
15. What is FNAC?
16. Discuss HSG under the following?
A) Define B) Indications C) Patient preparation
17. What is hypotonic duodenography?
18. Explain about MCU?
19. Write the Indications of IVU?
20. Define barium swallow and its indications?
21. What is Catheterization?

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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 details about the Generations of CT?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What about CT Gantry?
3. What is RF Transmitters, Receivers and types?
4. Explain about types of transformers?
5. Explain in detail about Anode Heel Effect?
6. Write the Radiographic techniques of Elbow AP & Lateral?
7. Explain the divisions of the brain?
8. Explain about the Para-nasal Sinuses?
9. Write the Radiographic techniques of Foot AP & Lateral?
10. Write about Patient safety in CT scan?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write about Breast Blood supply?
12. What is Frontal sinus?
13. Draw a neat labelled diagram of Circle of Willis?
14. Write about Cerebellum?
15. Write the Radiographic technique of Knee joint Lateral?
16. What are the Pulse Timing Parameters?
17. What is Gantry Cooling?
18. What is the Physical Principles of CT scan?
19. Write the Characteristics of MR active nuclei?
20. Write the Radiographic technique of Humerus AP?
21. What is the Location of darkroom?