SC—1298

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2001

IMAGING, TECHNIQUE, RADIOGRAPHIC TEACHNIQUE—II (Including US/CT/MRI/ NUCLEAR)

Time : Three Hours

Maximum : 80 Marks

Your answer shall be specific to the question asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essay. (Answer any *two*) :

1 Write briefly about procedure of small bowel enema.

2 What is transducer ? Write neat diagram of transducer and functions of its constituents.

3 Write briefly about imaging of biliary tract.

(2 × 10 = 20 marks)

II. Short Essays. (Answer any *eight*) :

4 What is window level and window width ?

5 Free induction decay.

6 Radiopharmaceuticals.

7 Digital substraction angiography.

8 Gamma camera.

9 What is pixel and voxel ?

10 Spiral CT.

11 PET.

12 MR 2D and 3D image production.

13 CT Angiography.

(8 × 5 = 40 marks)

III. Short Answers :

14 CT Artifacts.

15 CT guided lung biopsy.

16 MR artifacts.

17 Radio-immuno Assay.

18 Acoustic coupling agent.

19 Acoustic impedence.

20 B-mode.

21 T_2–Relayation time.

22 Hounsfield units.

23 Contrast scan.

(10 × 2 = 20 marks)



THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2001

RADIOGRAPHIC TECHNIQUE—II

Time : Three Hours

Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays. (Answer any *two*) :

1 Describe the special radiological procedures in Hepatobiliary system.

2 Describe in detail the responsibilities of radiographic during radiological procedures.

3 Classify contrast media. Mention the indications, contraindications and adverse effects.

(2 × 10 = 20 marks)

II. Short Essays. (Answer any *eight*) :

4 Mammography.

5 Radiation protection ten day rule.

6 Micturating cysto urethrography.

7 DSA.

8 Seldinger technique.

9 Cervical myelography.

10 Percutaneous lung biopsy.

11 MRI of female pelvis.

12 Bronchography.

13 Hypotonic duodenography.

(8 × 5 = 40 marks)

III. Short Answers :

14 High KV technique.

15 Mobile radiography.

16 Vesiculography.

17 Minute pyelography.

18 Asepsis.

19 Fistulography.

20 Preparations for IVP.

21 Guide wires.

22 Arthrography.

23 Soft tissue radiography.

(10 × 2 = 20 marks)



(Pages 2) SC—1745

THIRD YEAR B.Sc. (RADIOGRAPHY) [KIDWAI] DEGREE EXAMINATION, 2001

IMAGING TECHNIQUE, RADIOGRAPHIC TECHNIQUE including US/CT/MRI/NUCLEAR

Time : Three Hours Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1 Write briefly about radiation protection and practical methods of reducing radiation dose to the patient.

2 Write briefly about basic principles of Computed Tomography.

3 Write briefly pulse sequences—saturation, partial saturation, inversion recovery.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Transducers.

5 Interventional CT guided procedures.

6 Doppler effect.

7 Acoustic impedance.

8 Gamma camera.

9 MR Image Artefacts.

10 Pressure injector.

11 Non-ionic contrast media.

12 Radiopharmaceuticals.

13 Rectilinear scanner.

(8 × 5 = 40 marks)

III. Short Answers :

14 Grey scale imaging.

15 Ultrasound Artefacts.

16 MR contrast agents.

17 Pixel and Voxel.

18 Spiral CT.

Turn over

19 Larmor frequency.

20 M-mode.

21 Acoustic coupling agent.

22 CT number.

23 Gradient coils.

(10 × 2 = 20 marks)

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(Pages 2) SC—1746

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2001

RADIOGRAPHIC TECHNIQUE—II (Theory)

Time : Three Hours Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1 What is DSA ? Describe in detail Carotid Angiography.

2 Mention the emergency drugs and equipments in Radiological Department. Describe the role of radiograph in emergency.

3 Describe in detail procedure for spiral CT of Abdomen and Pelvis including preparation, indication and contrast administration.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Hysterosalphingogram.

5 MR imaging in cardiovascular system.

6 Excretion Urography.

7 Barium swallow in Tracheo-Oesophage fistula.

8 Percutaneous Transhepatic Cholangiography.

9 Cisternography.

10 Double contrast Barium enema.

11 Inferior Venacavography.

12 Percutaneous Nephrostomy.

13 Dacro Cystography.

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(8 × 5 = 40 marks)

III. Short Answers :

14 Radiation protection. (Ten day rule).

15 Bronchography.

16 Foreign body localisation.

17 Sailography.

18 Renal Isotope Scan.

19 Arthrography.

Turn over

20 Manoradiography.

21 Sinogram.

22 Forensic Radiography.

23 Pressure injector.

(10 × 2 = 20 marks)

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