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SC—0900

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2000

RADIOGRAPHY TECHNIQUE—II

Time : Three Hours

Maximum : 80 Marks

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

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

1 Write in detail the responsibility of radiographer during radiological procedures. Write briefly about the preparation of patient for different roentgenological procedures including interventional techniques.

2 Describe various contrast studies of biliary system.

3 Describe various special contrast studies in cardiovascular radiology with special reference to procedures at CATH labs.

(2 × 10 = 20 marks)

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

4 How barium meal-single contrast and double contrast examination is conducted ?

5 Write briefly about emergency drugs in radiology department.

6 Write briefly about non-ionic contrast media.

7 Explain the procedure of intravenous urography.

8 Brief outline of hypotonic duodenography.

9 Describe the technique of gastrograffin enema in paediatric practice.

10 Write brief outline of percutaneous nephrostomy procedure.

11 Brief outline of ascending urethrography.

12 Brief outline of hysterosalphingogram.

13 Brief outline of vesiculography.

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(8 × 5 = 40 marks)

III. Short Answers :

14 Soft tissue radiography of neck.

15 Contrast media and technique of bronchography.

16 Lumbar discography - technique and contrast.

17 Various paranasal sinus views.

18 Cisternal myelography.

19 Trascervical decubitus view.

20 Abdominal decubitus views.

21 Thoracic Decubitus views.

22 Orbital venography - technique and contrast.

23 Inferior venography - technique and contrast.

(10 × 2 = 20 marks)

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SC—1174

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2000

IMAGING 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 Describe the physical principles of medical ultrasound.
2 Describe the pulse sequence used in MRI.
3 Describe the principle of gamma camera.

(2 × 10 = 20 marks)

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

4 Pet.
5 Spect.
6 Pixel.
7 Hounse field number.
8 Mirror image artefact.
9 Slip ring technique.
10 Pulse doppler.
11 Isotopes.
12 Window width.
13 Renogram.

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(8 × 5 = 40 marks)

III. Short Answers :

14 ^{131}I.
15 ^{99}Tc MDP.
16 Electronic array.
17 B scan.
18 Continuous wave doppler.
19 Scintillation camera.
20 Barium titanate.
21 Scan converter.
22 Gadolinium DTRA.
23 Photomultiplier tube.

(10 × 2 = 20 marks)

SC—1175

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2000

RADIOGRAPHY 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 What is a contrast media ? What are various types of contrast medium used in diagnostic radiology ? Write briefly adverse reactions to contrast medium and its management in emergency basis.

2 Describe in detail the technique of small bowel enema barium enema and gastrograffin enema in the department of radiology.

3 Describe various routine as well as special roentgenological procedures conducted for evaluation of urinary system (uro radiological investigation).

(2 × 10 = 20 marks)

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

4 Brief outline of post-operative T-tube cholangiography.
5 ERCP.
6 Gynaecography and pelvimetry.
7 Brief outline of coronary angiography.
8 Brief outline of translumbar aortography.
9 Digital substraction angiography single plane and biplane. Brief outline.
10 Percutaneous spleno portography.
11 Brief outline of pulmonary arteriography.
12 Orbital venography.
13 Adrenal venography.

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(8 × 5 = 40 marks)

III. Short Answers :

14 Air ventriculography.
15 Air encephalography.
16 Lumbar discography.
17 Gynaecography.
18 Lithotripsy (extra corporeal short wave).
19 Percutaneous neph rostomy.
20 Percutaneous renal puncture.
21 Radiation protection—ten day rule.
22 Emergency equipment in radiology department.
23 Peripheral venograph of lower limb.

(10 × 2 = 20 marks)

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SC—0899

THIRD YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2000

IMAGING TECHNIQUE 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 Essays : (Answer any *two*)

1 Describe in detail basic principles of spiral CT.

2 What is Transducer ? Write neat diagram of a transducer and name different components of the transducer.

3 Describe basic principles of MRI.

(2 × 10 = 20 marks)

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

4 Gray scale imaging.

5 Radio pharmaceuticals.

6 Hounsfield number.

7 Voxel and Pixel.

8 Renogram.

9 Radioactivity.

10 B-scan.

11 Pet.

12 3-D images.

13 Paramagnetic substances.

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(8 × 5 = 40 marks)

III. Short Answers :

14 Acoustic impedance.

15 Window width.

16 M-mode.

17 MR contrast agents.

18 CT contrast agents.

19 Acoustic coupling media.

20 Doppler effect.

21 Real time scanner.

22 Cathode-ray tube.

23 DTPA.

(10 × 2 = 20 marks)