*Total No. of Pages : 2]* **Code No.: RC-2944**

**III YEAR B.Sc. RADIOGRAPHY EXAMINATION OF NOVEMBER - 2003**
**IMAGING TECHNIQUE - THEORY (RS)**

*Time : 3 Hours]* *[Max. Marks : 80*

*N.B :-*

1) *Answer to the point*
2) *Draw neat labelled diagrams wherever necessary.*

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**I.** ***Long Essays (Answer any Two of the following) :*** **[2 x 10 = 20]**

1) Write about interventional procedures with the use of ultrasound, mentioning briefly about transducer sterilization and also about the types of needles and catheters used.
2) What are the three main methods of ultrasonic displays. How would a fluid filled structure appear on Ultrasound, give examples.
3) What are the principles of Computed Tomography. Mention briefly about the various generation of CT scanners. What is Spiral CT?

**II.** ***Short Essays: (on any Eight of the following)*** **[8 x 5 = 40]**

4) Piezoelectric effect.
5) Continuous wave doppler
6) Ultrasound artefacts.
7) Magnification Angiography
8) What do you mean by subtraction technique.
9) Signal to noise ratio
10) Contrast to noise ratio
11) Radiofrequency transmitter
12) Saturation recovery
13) Mention briefly about production of Radionuclides
14) Principles of tracer techniques
15) Multihole collimator.

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*III. Write briefly about* **[4 x 5 = 20]**

16) M.R. Contrast agents

17) Image reconstruction

18) Difference between A, B and M modes and also real time ultrasound

19) Precautions of handling radiopharmaceuticals.

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*Total No. of Pages : 1]*

**Code No.: RC-2945**

**III YEAR B.Sc. RADIOGRAPHY EXAMINATION OF NOVEMBER - 2003**
**RADIOGRAPHIC TECHNIQUE - II - THEORY (RS)**

*Time : 3 Hours]* *[Max. Marks : 80*

*N.B :-*

*Draw neat and labelled diagrams wherever necessary.*

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***I. Long Essays (Answer any Two of the following) :*** **[2 x 10 = 20]**

1) Describe hystero salphingography technique, procedure, indications and contraindications.
2) Describe all-about I.V.P in respect to hypertension.
3) Discuss all about cerebral arteriography.

***II. Short Essays: (on any Eight of the following)*** **[8 x 5 = 40]**

4) D.S.A.
5) ERCP
6) RGU
7) Doppler
8) Contrast media
9) Lumbar myelography
10) Bronchography
11) Multiple radiography
12) Tomography
13) Isotope scanning

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***III. Short Answers:*** **[10 x 2 = 20]**

16) Xeroradiography
17) High lcv radiography
18) Mobile Radiography
19) Barium
20) Gastrograffin
21) Non-ionic contrast media
22) Percutaneous cholangiography
23) Pulmonary arteriography
24) Inferior veno cavography
25) Orbital venography

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