*This Question Paper consists of **29** questions and **4** printed pages.*

Roll No. | | | | | | | | | | | | | **Code No.** **64/VOC/O**

Set - A

DIPLOMA IN MEDICAL IMAGING TECHNOLOGY

(Recent Advances in Imaging, Special Diagnostic Procedures)

Paper - III

(Theory)

(473)

Day and Date of Examination _____

Signature of Invigilators 1. _____

2. _____

General Instructions :

1. Candidate must write his/her Roll Number on the first page of the Question Paper.

2. Please check the Question Paper to verify that the total pages and total number of questions contained in the question paper are the same as those printed on the top of the first page. Also check to see that the questions are in sequential order.

3. For the objective type of questions, you have to choose any one of the four alternatives given in the question, i.e., (A), (B), (C) or (D) and indicate your correct answer in the answer-book given to you.

4. Making any identification mark in the answer-book or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.

5. Answers for all questions, including matching, true or false, fill in the blanks, etc., are to be given in the answer-book only.

6. Write your Question Paper Code No. **64/VOC/O**, Set **A** on the answer-book.

DIPLOMA IN MEDICAL IMAGING TECHNOLOGY
(Recent Advances in Imaging, Special Diagnostic Procedures)
Paper - III
(Theory)
(473)

Time allowed : ***3*** *Hours]* *Total Marks :* ***75***

Note : *(i)* ***All*** *the questions are* ***compulsory****.*

(ii) Marks are indicated against each question.

Answer the following questions elaborately : *10+10=20*

1. What is angiography ? Discuss various modalities used in imaging blood vessels.

2. Discuss the role of modern CT technology in imaging abdominal body organ system.

Write short notes on the following : *7×5=35*

3. Principles of Doppler Ultrasound

4. Method of Barium Swallow Study

5. Digital Radiography

6. CT–Angiography

7. Intravenous Urography (IVU)

8. Transvaginal Sonography

9. Radionuclide Scanning

Write True or False for the following statements. Write your answers in your answer-book. *10×1=10*

10. Patient preparation of cleansing enema is not needed for Barium Enema study.

11. Doppler can be used for evaluation of venous system of lower limbs.

12. PET scan is not done for bones.

13. T-tube cholangiography is done 7 – 10 days after cholecystectomy.

14. MRI avoids exposure to ionizing radiation.

15. CT Scan is a better imaging module than ultrasound in skull imaging.

16. Ultrasonography is a sensitive imaging technique for diagnosing gall stones.

17. The intravenous contrast media can be used for valuable information to chest examination.

18. Thermography is advised for pelvic organs.

19. Ultrasound has replaced conventional radiology for diagnosing obstetric and pelvic diseases in female patients.

Fill in the blanks. Write your answer in the answer book : *10×1=10*

20. Blood flow within blood vessels is studied by _____ .

21. Bone scanning is done using _____ compound.

22. Patient may feel claustrophobic in a _____ gantry.

23. Lymphography is done to demonstrate _____ in the body.

24. DSA stands for _____ angiography.

25. MRI examination takes _____ time than CT scanning.

26. Radiographic contrast study of joints is called _____ .

27. HSG, the study of _____ and _____, is done in _____ of menstrual cycle.

28. DCG is the study of _____ while OCG is the study of _____ .

29. Two types of magnets used in MRI equipment are _____ and _____ .