

MODAL QUESTION PAPER
X-RAYTECHNICIAN
X-RAY EQUIPMENT & RADIATION PHYSICS
1ST YEAR – PAPER – I

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10x2=20
(ii) Each Question carries 2 marks

1. Define Electric Current and give its SI Units?
2. Define the Unit ROENTGEN?
3. Mention the advantage of Grid's?
4. Name the various types of Transformers?
5. Name the types of Tiner's?
6. Define Inverse Square Law?
7. What do you mean by Isodose Chart?
8. What is Maximum Permissible dose limit?
9. Write the advantages of a Rotating Anode?
10. Write the advantage of Portable X-Ray Machine?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Draw a neat diagram of fild Badge and explain its working principles?
12. Write short notes on Radiation Hazards and safety measures?
13. Distinguish between a step-up and step down transformer?
14. Name the types of Dental X-Ray Units and write their uses?
15. Write short notes on image intensifier?
16. Write briefly the difference between Grids and filters used in Radiography?
17. Draw a diagram of a Rectifier and explain its working principles?

MODAL QUESTION PAPER
X-RAYTECHNICIAN
ANATOMY, PHYSIOLOGY & RELATED PATHOLOGY
1ST YEAR – PAPER – II

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10 x 2 = 20
(ii) Each Question carries 2 marks

1. Name the different lobes of liver?
2. Write the functions of Pancreas?
3. Write short notes on Knee Joint?
4. Name the various parts of Digestive System?
5. Name the bone's of Wrist Joint?
6. Write notes on Pitutary Glands and its functions.
7. Name the bones of pelvis.
8. Write the Physiology of Excretory System.
9. Name the types of Blood Grouping and Cross Matching.
10. Write the functions of Adrenal Gland?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Write the Anatomy of Scrotum?
12. Describe the chamber of Heart?
13. Write notes on various types of blood cells?
14. Write notes on functions of Kidney?
15. Write notes on types of Sinuse's?
16. Write notes on Ankle Joint and name the Torsal Bones?
17. Describe the Anatomy of Neck?

MODAL QUESTION PAPER
X-RAYTECHNICIAN
BASIC'S OF IMAGEOLOGY
1ST YEAR – PAPER – III

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10x2=20
(ii) Each Question carries 2 marks

1. Name the Basic parts of MRI Scanner?
2. What are the merits and demerits of CT Scan?
3. What is Imagelogy?
4. What is the Principles of Ultra Sonography?
5. Write short notes on Mammography.
6. What are the types of Transduce's?
7. Define the Doppler Effect of sound?
8. What are MR Artifacts?
9. What do you know about Pet Scan?
10. Write the Indications and counting indication of contrast Media?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Briefly describe the working principles of a Gamma Camera.
12. Distinguish between Spiral and conventions, CT Scan.
13. Write briefly about Mammo Sonography.
14. Write the types of Contact Media and name a few of them.
15. Distinguish between CT Scan and MRI Scan.
16. Write briefly the commonly used Radio Nuceids.
17. Name the different types of Interventions, Radiology.

**MODAL QUESTION PAPER
X-RAYTECHNICIAN
DARK ROOMTECHNIQUES & RADIOGRAPHY
IIND YEAR – PAPER – I**

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10x2=20
(ii) Each Question carries 2 marks

1. What is Optical Density?
2. What are the advantages of Intensifying Screen.
3. What is Open Mouth View?
4. What is Axial View of Elbow?
5. What are the Rating of a Dark Room Safe Light.
6. Write the advantages of a Replenition?
7. Name the basic view of X-Ray Scaphoid Bone.
8. How do you like Optic Foramen view?
9. What is the Importance of Radiographic Positioning?
10. What are the main functions of Fixer?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Describe Automatic Film Processing.
12. How do you Recover Silver From Film and Tank's?
13. Write a brief notes on Breast X-Ray?
14. Write briefly about Ortho Pamthography(OPG) ?
15. Explain the different types of Chest X-Ray.
16. Write briefly X-Ray Film Storage?
17. Describe the structure of X-Ray Films?

**MODAL QUESTION PAPER
X-RAYTECHNICIAN
RADIOGRAPHY
II IIND YEAR – PAPER – II**

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10x2=20
(ii) Each Question carries 2 marks

1. What is Sialography?
2. Name the types of Contrast Media?
3. What is Xero Radiography?
4. What is Patho Physiology?
5. What are the types of Anaemia?
6. What is Tomography?
7. What is difference between Benign and Malignant.
8. Write briefly about MCU?
9. What is Hystero Salpingography.
10. Briefly mention about emergency in Radiology?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Write short notes on local and systemic effect of Radiation.
12. Describe the procedure of BMFT?
13. Write shortly about Angiography?
14. Describe Percutaneous Transhepatic Cholangiography?
15. What do you mean by Metastasis.
16. Name the equipment for Tomography?
17. Name the types of Radiotherapy Treatment.

**MODAL QUESTION PAPER
X-RAYTECHNICIAN
IMAGEOLOGY
IIND YEAR – PAPER – III**

Time: 3 Hours

Max. Marks: 50

Section – A

Note: (i) Answer all the Questions 10x2=20
(ii) Each Question carries 2 marks

1. Write the preparation of Abdomin at CT Scan?
2. What are the contract used in MRI?
3. What is Perfusion Scan?
4. What is Doppler Effect.
5. What is Bullido Scan?
6. What is Thyroid Perfusion Scan?
7. What is Digital Radiography?
8. What is Renogram?
9. Counting Indication of Contrast Media.
10. Write briefly about Mammography?

Section – B

Note: (i) Answer any 5 Questions 5 x 6 = 30
(ii) Each Question carries 6 marks

11. Describe briefly Neuro-Sono Graphy?
12. Difference between CT, Plain X-Ray & MRI Film's & Mamographic film's?
13. Mention the Tye's of Transducen's?
14. What are the indication for CT Brain.
15. Uses of Ultra Sound in Antenatal Scan.
16. Difference between MRI & CT Scan, Mention advantages and disadvantages.
17. Procedure for Angiography and its precautionary measures.