

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper III)

(Candidates admitted from 2020-2021 onwards – Paper IV)

PAPER III & IV – RADIOGRAPHIC AND IMAGING TECHNIQUES

Q.P. Code : 282503

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Briefly explain in detail about the various Radiographic Techniques and views for Acute Abdomen.
2. Describe in detail PA & lateral chest radiographic imaging.
 - a) Explain how the exposure factors need to be modified in a 5year old boy and a 25 year old lady.
 - b) Discuss the preferred special views for the following.
 - i) left small pneumothorax in an ambulant patient and in a very sick patient.
 - ii) Suspected lesion in right lung apex masked by the clavicle

II. Write Short Notes on:

(10x6 = 60)

1. Pelvimetry.
2. Radiographic views in case of suspected fracture of cervical spine.
3. Strykers view.
4. Plain radiographic evaluation of suspected foreign body with children?
5. Waters and Reverse waters view?
6. Different views for Calcaneum?
7. Mammographic techniques and positioning?
8. How do you evaluate trapezium and Scaphoid?
9. Write about high KV and Low KV techniques?
10. Radiation protection during radiography.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0522]

MAY 2022

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper III)

(Candidates admitted from 2020-2021 onwards – Paper IV)

PAPER III & IV – RADIOGRAPHIC AND IMAGING TECHNIQUES

Q.P. Code : 282503

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2. Radiographic views in case of suspected fracture of cervical spine.
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7. Mammographic techniques and positioning.
8. How do you evaluate trapezium and Scaphoid?
9. Write about high KV and Low KV techniques.
10. Radiation protection during radiography.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1022]

OCTOBER 2022

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper - III)

(Candidates admitted from 2020-2021 onwards – Paper - IV)

PAPER III & IV – RADIOGRAPHIC AND IMAGING TECHNIQUES

Q.P. Code : 282503

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. What is obstructive jaundice? What are the investigations to be done to confirm the cause of jaundice? Describe about various modality.
2. Describe in detail barium meal study of gastro intestinal tract. Describe various technique and sequence of films taken.

II. Write notes on:

(10 x 6 = 60)

1. CT - myelogram.
2. Tomosynthesis – mammography.
3. Uterine artery embolization.
4. Pulmonary angiogram.
5. IVC gram.
6. Percutaneous trans hepatic biliary drainage.
7. CT – cisternogram.
8. Catheter based thrombolysis.
9. Amniocentesis.
10. Varicose vein – diagnosis and radiological interventional procedures.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0523]

MAY 2023

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR
(Candidates admitted from 2020-2021 onwards)
PAPER IV – RADIOGRAPHIC AND IMAGING TECHNIQUES**

Q.P. Code: 282503

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Paediatric radiography:-
 - a. Chest and abdomen Techniques (Neonatal and post Neonatal).
 - b. Pelvis and hip joint views.
 - c. Leg length assessment.
 - d. Bone age.

2. Explain in detail the different view in spine imaging.

II. Write notes on:

(10 x 6 = 60)

1. Brief forensic radiography.
2. Mammographic Techniques and positioning.
3. Flamingo view.
4. Waters and reverse water's view.
5. Write about high KV and low KV techniques.
6. Common skull radiography Techniques.
7. Zanca view.
8. Acute abdomen radiography.
9. High KV techniques in Thorax imaging.
10. Peg projection view.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER IV – RADIOGRAPHIC AND IMAGING TECHNIQUES**

Q.P. Code: 282503

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Describe physics of mammography, standard views used and their positioning Techniques with relevant representative diagrams.
2. Briefly explain in detail about the various Radiographic Techniques and views for Acute abdomen.

II. Write notes on:

(10 x 6 = 60)

1. Carpel Tunnel view.
2. Stryker notch view.
3. Different view for Calcaneum.
4. Radiographic techniques for suspected pneumothroax.
5. Stenvers view.
6. Strategies in bariatric radiography.
7. Skeletal survey.
8. Bedside radiography of chest and abdomen.
9. CT – Aortogram.
10. Clenched fist view.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1024]

OCTOBER 2024

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER IV – RADIOGRAPHIC AND IMAGING TECHNIQUES**

Q.P. Code: 282503

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Discuss about various vertebral views and Techniques taken for scoliosis, kyphosis and kyphoscoliosis in pediatric patients.
2. Discuss in detail about Magnetic Resonance Cholangio Pancreatography (MRCP) indication, preparation, techniques and clinical uses.

II. Write notes on:

(10 x 6 = 60)

1. Macro radiography.
2. Clements Nakayama view.
3. Rosenberg view.
4. Neonatal radiography Technique.
5. Shoulder radiography for Trauma Cases.
6. CT-Pulmonary angiogram.
7. MR-Spectroscopy.
8. Percutaneous and ingested foreign body radiography.
9. Brodens view.
10. Chest Radiography – Basic and supplementary view.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0525]

MAY 2025

Sub. Code: 2503

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR (From 2020-2021 onwards)
PAPER IV – RADIOGRAPHIC AND IMAGING TECHNIQUES**

Q.P. Code: 282503

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Briefly explain in detail about the various Radiographic Techniques and view for Acute Abdomen.
2. Describe in detail barium meal study of gastrointestinal tract. Describe various techniques and sequence of films taken.

II. Write notes on:

(10 x 6 = 60)

1. Pelvimetry.
2. Soft tissue radiography.
3. CT-Myelogram.
4. Carpel tunnel view.
5. Water's and Reverse water's view.
6. IVC gram.
7. Zanca view.
8. Uterine artery embolization.
9. CT Cisternogram.
10. Radiographic techniques for suspected pneumothorax.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1025]

OCTOBER 2025

Sub. Code: 2503

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FIRST YEAR (From 2020-2021 onwards)
PAPER IV – RADIOGRAPHIC AND IMAGING TECHNIQUES**

Q.P. Code: 282503

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. What is obstructive Jaundice? What are the investigations to be done to confirm the cause of Jaundice? Describe about various modality.
2. Explain in detail the different view in spine imaging.

II. Write notes on:

(10 x 6 = 60)

1. Different views for Calcaneus.
2. Percutaneous trans hepatic biliary drainage.
3. Mammographic techniques and positioning.
4. Plain radiographic evaluation of suspected foreign body with children.
5. Radiation protection during radiography.
6. Strategies in bariatric radiography.
7. Clenched fist view.
8. Varicose vein – diagnosis and radiological interventional procedures.
9. Macro radiography.
10. Radiographic techniques for suspected pneumothorax.
