

**MODEL QUESTION PAPER (RS2)
PARAMEDICAL BOARD, BENGALURU**

Time: 3.00 HRS

Max Marks:100

**COURSE: III DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)
SUBJECT: RADIOGRAPHIC POSITIONING & RADIOGRAPHIC PHOTOGRAPHY (R I)
QP CODE: 6121**

I. Short notes, answer any EIGHT questions.

8X5=40

1. Collimator
2. Linear attenuation coefficient
3. Beam limiting devices
4. Grids
5. Hounsfield number
6. Alara concept.
7. Cardinal principles in protection.
8. Skull views.
9. Write a note on positioning aids
10. Radiation effects.

II. Short answers

20X3=60

11. Focal spot
12. Use of cones
13. Pixel and voxel
14. Kvp
15. Source to image distance
16. Occupational safety and health administration(osh)
17. Filters
18. Ct artifacts.
19. Lead masks
20. Film fog
21. Views for scaphoid
22. Orbtomeatal line and its significance in radiography
23. Sources of radiation
24. Nonstochastic effects of radiation.
25. Stochastic effects of ionising radiation
26. Sternum
27. Genetically significant dose.
28. Beam limiting devices.
29. Skyline view of patella
30. Claustrophobia

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Time: 3.00 HRS

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**COURSE: III DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)
SUBJECT: SPECIAL PROCEDURES, RADIOGRAPHIC PHOTOGRAPHY AND
MEDICAL RECORDS (R II)
QP CODE: 6123**

I. Short notes, answer any EIGHT questions.

8X5=40

1. Discuss in details about radiographic contrasts
2. List out the cares to be taken in using of contrast media
3. What is Barium? Write note on Barium studies and their uses.
4. Briefly discuss various types of Cholangiography
5. Discuss the requirement of ultrasound for the special investigations of urinary system
6. Electro CardioGraphy
7. Need of UltraSonoGraphy as a special investigation for CVS
8. CT & MRI as special investigation in respiratory tract
9. Role of Magnetic Resonance Imaging in CNS investigations
10. Branchography

II. Short answers

20X3=60

11. Hypotonic Duodenography
12. Small Bowel Enema
13. Micturating Cysto Urethrography
14. Reterograde Pyeloureterography
15. Oral Cholecystography
16. Post Operative T tube Cholangiography
17. Percutaneous Transhepatic Choledochography
18. Percutaneous Nephrostomy
19. Intravenous Cholangiography
20. Pre Operative Cholangiography
21. Tomography
22. Lymphangiography
23. Myelography
24. Arthrography
25. Mobile Radiography
26. Sinography
27. Fistulography
28. Peripheral venography of upper limb
29. Bronchography
30. Sialography

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Time: 3.00 HRS

Max Marks:100

**COURSE: III DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (RS2)
SUBJECT: RADIOGRAPHIC PHOTOGRAPHY AND IMAGE PROCESSING (R III)
QP CODE: 6125**

I. Short notes, answer any EIGHT questions.

8X5=40

1. What are radiographic films? Draw the CS of a double emulsion film and label its contents.
2. What are the types of X-rays films?
3. Draw a typical film characteristic. Also label and define the following terms therein (a) Gamma (b) contrast (c) Speed & (d) Latitude
4. What are intensifying screen? What are the desirable properties of the phosphors used in an intensifying screen?
5. Discuss the structure, speed and uses of an intensifying screen
6. Working principle, technique & merits of Digital Radiography
7. Discuss in details various factors affecting the resolution of an image
8. Discuss in details different types of film faults and the procedures to prevent the same.
9. Different methods of film processing
10. Points to be considered while planning a dark room

II. Short answers

20X3=60

11. Film graininess ,
12. Dark room
13. safe storage of radiographic film
14. fluorescence
15. Speed of a film
16. Screen & non-screen film
17. Safelight
18. Loading & unloading of cassette
19. possible damages and maintenance of an intensifying screen
20. Storage of film materials and radiographs
21. Note on : Primary radiological image, Latent image & Visible image
22. Define magnification, Distortion & penumbra
23. What is an MLC? List the legal evidences provided by a MLC
24. Note on : Safe light
25. Write note on labeling & presentation of a radiograph
26. Note on : Dark room Technique
27. Points to be considered while planning a dark room
28. Exhausted processing solution
29. Replenishment
30. Note on : Film artifacts
