

[LH 0415]

OCTOBER 2015

Sub. Code: 3604

**DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY**  
(Regulation for candidates admitted from 2014-2015 session onwards)  
**PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Barium Meal Follow Through – Indication, Contraindication, Patient preparation, Contrast media, procedure, radiographic views.
2. Oral cholecystography - Indication, Contraindication, Patient preparation, Contrast media procedure radiographic views and complication.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Low osmolar Contrast media -V s - High osmolar contrast media.
2. Role of radiographer in the management of a patient with contrast reaction.
3. Hypotonic duodenography, - Procedure and radiographic views.
4. Double contrast study of barium enema - Contrast, procedure and radiographic views.
5. Micturating cysto-urethrography - Indication, Contraindication, Procedure and radiographic views.
6. Hysterosalpingogram, -Contrast, Precaution procedure.
7. Laryngography - Diagram, procedure.
8. Indication and Contraindication of Myelogram.
9. Knee Arthrography -Procedure, radiographic views.
10. Percutaneous cholangiography.

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[LJ 1016]

OCTOBER 2016

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is Angiography? Describe in detail the indication, contra-indication, patient preparation, site of entry, technique, contrast used and complications of catheter Angiography.
2. What is Myelography? Discuss about Myelography Contrast media. Discuss in detail CT- Myelogram, MR – Myelogram and Cisternal puncture.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Describe about bronchial artery embolization with diagrams.
2. Immunological toxicity and its treatment.
3. Discuss about MRI contrast media.
4. CT and MR Enteroclysi.
5. What are the indications and contraindications of T-Tube cholangiography? Describe the technique used.
6. Technique and indications of percutaneous splenic puncture in portal venography.
7. Classify Catheters with examples. Write short notes on their sterilization.
8. Uterine artery embolization.
9. Discuss normal anatomy of male urethra with diagram.
10. Write about virtual colonoscopy and MR colonography.

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[LL 1017]

OCTOBER 2017

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the following about MRI arthrogram-sequences, coil, contra indication, patient preparation and procedure.
2. Elaborate in detail the contra indication, patient preparation, contrast medium, procedure, radiographic views for IVU.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain the procedure–Barium Swallow.
2. What are the differences between ERCP and MRCP?
3. Write short notes on ductogram.
4. Write short note on positioning and radiographic factors for conventional fistulogram.
5. Write the short notes on barium sulphate.
6. Write short notes on planning for CT Cisternogram.
7. Discuss about Lymphangiogram.
8. Expand – PTC, PTBD, AUG, RGP, IVU, HSG.
9. Write short notes on Gadolinium DTPA.
10. Write short notes on positioning and radiographic views for Hypotonic Duodenography.

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[LM 0518]

MAY 2018

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Intravenous urography indication, contraindication, patient preparation, procedure and radiographic views.
2. Internal carotid arteriogram anatomy, indication, contraindication, patient preparation, trolley setting, contrast, procedure and radiographic views.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Sialography procedure and radiographic views.
2. Contrast media used in GIT.
3. Type of contrast media and the use of negative contrast media.
4. Gastrografin study procedure and radiographic views.
5. Enteroclysis study procedure and radiographic views.
6. Catheters classification and uses.
7. Bronchography.
8. Indication and contraindication for venography.
9. Lower limb arteriography.
10. Antigrade pyelography.

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[LN 1018]

OCTOBER 2018

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Properties of the barium. Elaborate on various oral contrast procedures in GI tract that uses barium.
2. Iodinated contrast agents, indication, dose, contraindication.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Enteroclysis.
2. Sialogram.
3. Loopogram.
4. Invertogram.
5. MCU.
6. IVP.
7. ERCP/MRCP.
8. MRI contrast agents.
9. Cisternogram.
10. T tube cholangiography.

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[LO 0519]

MAY 2019

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Properties of Gadolinium. Adverse reactions to Gadolinium. Elaborate on MRCP procedure - indication, patient preparation, contraindication and MR sequences.
2. Iodinated contrast agents - classification, indication, dose and contraindication.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Barium enema.
2. Sialogram.
3. Expand AUG, RGP, IVU.
4. Hypotonic duodenogram.
5. Fistulogram.
6. Lymphangiogram.
7. Barium sulphate.
8. Loopogram.
9. T Tube cholangiogram.
10. Sinogram.

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[LP 1019]

OCTOBER 2019

Sub. Code: 3604

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY EXAMS  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

*Q.P. Code : 363604*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the following about IVU-Indication, contraindication, patient preparation, contrast medium, procedure and radiographic views.
2. Discuss the following about CT cerebral angiogram-indication, patient preparation, contraindication and procedure.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Loopogram.
2. Enteroclysis.
3. Invertogram.
4. MCU.
5. Retrograde pyelogram.
6. Barium sulphate.
7. ERCP/MRCP.
8. Percutaneous cholangiogram.
9. MR contrast agents.
10. Adverse effects of iodinated contrast agents.

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**THE TAMIL NADU Dr.M.G.R. MEDICAL UNIVERSITY**

**[LQ 1120]**

**NOVEMBER 2020  
(MAY 2020 EXAM SESSION)**

**Sub. Code: 3604**

**P.G. DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY  
FIRST YEAR – (Regulation 2014 – 2015)  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES  
Q.P. CODE: 363604**

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Micturation Cystourethrogram (MCU) - indications, contra-indications, patient preparation, procedure, radiographic views.
2. Draw a labeled diagram explaining about the Hystero Salphingo Graphy (HSG) procedure.

**II. Write notes on:**

**(10 x 6= 60)**

1. Indication, contra indication and procedure for Barium Meal Follow Through.
2. Percutaneous Transhepatic Cholangiography – indication, contra–indication and procedure.
3. List the Emergency Equipments and drugs kept in the Radiology department.
4. After care of patient in conventional Angiographic procedure.
5. Advantages of the preliminary or Pilot Films.
6. Venography.
7. Volume of contrast and filming in the case of Paediatric IVU.
8. Why do we use Luke warm preparation in Barium Enema? Uses of effervescent in barium swallow.
9. Negative contrast media and their uses
10. Indications for Digital Subtraction Angiography. What is road mapping in DSA?

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

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 3604**

**(OCTOBER 2020 EXAM SESSION)**

**POST GRADUATE DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY**

**(From 2014-2015 onwards)**

**PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES**

***Q.P. Code : 363604***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Write in detail about the Radiological procedures of Single and Double contrast of Barium Enema study.
2. Ascending urethrogram(AUG) - indications, contra-indications, patient preparation, procedure, radiographic views.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Discuss about Barium meal study.
2. Fistulography.
3. How are contrast media classified?
4. Explain the role of radiographer during mild and severe contrast reaction. Emergency equipment and drugs kept in radiology department.
5. Defecogram - procedure, procedure, radiographic view
6. Compare methyl cellulose DC and Air double contrast.
7. Retrograde pyelourethrography.
8. Lead gloves and apron.
9. Dacryocystography
10. Describe Lymphography.

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

**[AHS 0921]**

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 3604**

**POST GRADUATE DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY  
(From 2014-2015 onwards)  
PAPER IV – CONTRAST AND SPECIAL RADIOGRAPHIC PROCEDURES  
*Q.P. Code : 363604***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Write in detail about indications, contraindications, preparation of patient, contrast medium and radiographic views taken for intravenous urogram ( IVU).
2. Barium swallow - indications, contra-indications, patient preparation, procedure, radiographic views.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. HSG procedure.
2. Non-ionic monomers and dimers used in diagnostic radiology.
3. Fistulography.
4. Indications, contrast and technique of barium enema.
5. Sinogram procedure.
6. Defecogram - procedure, radiographic view.
7. What compound is used in positive contrast medium? Why?
8. Ten day rule.
9. ALARA.
10. Shoulder arthrography.

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