

[LP 1019]

OCTOBER 2019

Sub. Code: 1811

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS  
SECOND YEAR  
PAPER I – RADIOLOGICAL AND IMAGING PROCEDURES**

*Q.P. Code : 281811*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What are the properties of an ideal barium preparation? What are commercially available barium formulations? How will you prepare barium suspension in radiology room? Describe the preparation, single contrast study, double contrast study techniques in barium meal study.
2. What is hysterosalpingogram? Describe the indications, contraindications, equipment, patient preparation and technique used. What are the complications expected?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Double contrast barium enema.
2. Micturating cystourethrogram.
3. Percutaneous transhepatic cholangiography.
4. CT enteroclysis.
5. Retrograde urethrography.
6. Sialography.
7. Classify contrast media. What are the adverse reactions of iodinated contrast media.
8. Preparation and procedure for intravenous urography.
9. Lymphangiogram.
10. Virtual colonoscopy.

\*\*\*\*\*



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

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 1811**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY**

**SECOND YEAR (From 2017-2018 onwards)**

**PAPER I – RADIOLOGICAL AND IMAGING PROCEDURES**

***Q.P. Code : 281811***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. What is intravenous urography? Describe the indications, contraindications, contrast media used. Write about nephrotomogram and modifications of urogram.
2. Define barium enema. Write about contrast media used, patient preparation and positions. Describe SCBE, DCBE and special barium enema studies.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Angiography.
2. MR contrast media.
3. Hysterosalpingography.
4. Enteroclysis.
5. T - Tube cholangiography.
6. Retrograde pyeloureterography.
7. Sialography.
8. Mammography.
9. Barium meal follow through.
10. What is PET? Write about its principle, uses and limitations.

\*\*\*\*\*



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

**[AHS 0921]**

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

**Sub. Code: 1811**

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY  
SECOND YEAR (From 2017-2018 onwards)  
PAPER I – RADIOLOGICAL AND IMAGING PROCEDURES  
*Q.P. Code : 281811***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Classify contrast media. Write in detail about iodinated contrast media and its adverse reactions.
2. What are the properties of an ideal barium preparation? Write about preparation of barium suspension. Describe in detail about barium meal study including indications, single and double contrast study techniques. What is hypotonic duodenography?

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Micturating Cystourethrogram.
2. Percutaneous transhepatic cholangiography.
3. Phlebography.
4. Obstetric doppler.
5. Catheters.
6. Barium meal follow through.
7. Hysterosalpingography.
8. Write about embolisation, materials used for embolisation with their mechanism of action.
9. Virtual colonoscopy.
10. Retrograde urethrography.

\*\*\*\*\*