02/01/2025

Printing Page (s) : 1 **Paper Code : MD-136**
(SVSU) 2022-2023/R (B)

Enrollment No.																	

M.D. (Radiology)
Final Year Examination
Paper I
Subject Name : Radiology

[Time : 3:00 Hours] **[Max. Marks :100]**

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe the principles of medical ultrasound **[20]**

2. **Write short notes on :** **[10×6=60]**
   - **(a)** Artifacts in radiographic imaging
   - **(b)** Radiation protection
   - **(c)** Biological effects of radiation
   - **(d)** Digital radiography
   - **(e)** Management of adverse contrast reactions.
   - **(f)** Hepatic segmental anatomy

3. **Discuss briefly :** **[5×4=20]**
   - **(a)** Medical Xray film
   - **(b)** PACS
   - **(c)** Radiation dosimetry
   - **(d)** Role of PET in clinical radiology

****

Printing Page (s) : 1

Paper Code : MD-137 04/01/2025
(SVSU) 2022-2023/R (B)

Enrollment No.																	

M.D. (Radiology)
Final Year Examination
Paper II
Subject Name : Radiology

[Time : 3:00 Hours] **[Max. Marks :100]**

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe various HRCT lung findings seen in interstitial lung disease with the help of diagrams. Briefly mention about typical chest findings in Covid19 infection. **[20]**

2. **Write short notes on :** **[10×4=40]**

(a) Digital Breast tomosynthesis

(b) Central pontine myelinolysis

(c) Rickets

(d) Atrial myxoma

3. **Discuss about the following -** **[10×4=40]**

(a) Vein of galen malformation

(b) Brief anatomy of glottis and its lesions

(c) Neonatal respiratory distress syndrome

(d) Thyroid associated orbitopathy

****

06/01/2025

Printing Page (s) : 1

Paper Code : MD-138
(SVSU) 2022-2023/R (A)

Enrollment No.

M.D. Radio-diagnosis
Final Year Examination
Paper III
Subject Name : Abdominal imaging including gastrointestinal, genitourinary, hepatobiliary, endocrine and metabolic, Obstetrics and Gynaecology and intervention radiology.

[Time : 3:00 Hours] [Max. Marks : 100]

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Discuss the role of plain radiograph, USG, barium studies and CT scan in diagnosis of GI tuberculosis. Discuss the features that are useful to differentiate it from Crohn's disease. [15]

2. Discuss Portal Hypertension : its radiological diagnosis and interventional management. [15]

3. **Describe briefly -** [10×4=40]

(a) Imaging in neuroblastoma in a child and its common radiological differential diagnosis.

(b) Enlist the various cystic pancreatic neoplasm and discuss their imaging appearances

(c) CT Urography: Technique, indications and common pathologies and their diagnostic features.

(d) Pathophysiology and imaging features of Renal osteodystrophy

4. **Write short notes on -** [5×6=30]

(a) Imaging in renal trauma

(b) PC-PNDT Act

(c) Sonography in first trimester bleeding

(d) Vesico-ureteric reflux

(e) TRUS imaging

(f) Ultrasoundgraphy of Thyroid Gland

****

08/01/25

Printing Page (s) : 1

SVSU/2024/R-B

Paper Code : MD-139

Enrollment No.																	

MD- Radiodiagnosis

Paper – IV

(Recent advances, nuclear medicine; Radiology related to clinical Specialties)

[Time : 3:00 Hours] [Max. Marks : 100]

Note : Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Discuss role of MRI for prostatic diseases. (10)
2. Discuss role of PET – CT for evaluation of diseases (10)
3. USG Contrast media and applications. (10)
4. Discuss the principle and applications of spiral CT. (10)
5. Describe MRI sequences and their applications. (10)
6. PCPNDT Act. (10)
7. Describe the steps you would take in a diagnostic department to control and reduce radiation doses to the patient and the worker. (10)
8. Discuss PACS for Radiology Department. (10)
9. Subtraction techniques and it's applications in Radiology. (10)
10. Describe advances in Mammography and their applications. (10)

****