

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

M.D. DEGREE EXAMINATION - October 2019

RADIO DIAGNOSIS

**PART I - PAPER I : PHYSICS AND BASIC SCIENCES RELATED TO
RADIODIAGNOSIS**

Time: Three hours

Maximum: 100 marks

All questions carry equal marks

I. ANATOMY : **(2 x 5 = 10)**

- 1) Radiological anatomy of Kidney.
- 2) Embryology of bowel rotation.

II. PATHOLOGY : **(2 x 5 = 10)**

- 3) Pathology of testicular tumors
- 4) Pathology of malignant bone tumors.

III. GENERAL SURGERY : **(2 x 5 = 10)**

- 5) Evaluation of left iliac fossa pain
- 6) Evaluation of hematemesis.

IV. GENERAL MEDICINE : **(2 x 5 = 10)**

- 7) Viral hemorrhagic fever
- 8) Congestive cardiac failure

V. ORTHOPAEDICS : **(2 x 5 = 10)**

- 9) Slipped capital epiphysis of femur
- 10) Synovial sarcoma

VI. OBSTETRICS AND GYNAECOLOGY : **(2 x 5 = 10)**

- 11) Polycystic ovarian syndrome
- 12) Abruption placental

VII. NEUROLOGY : **(2 x 5 = 10)**

- 13) Multiple sclerosis
- 14) Meningitis.

VIII. RADIATION PHYSICS : **(6 x 5 = 30)**

- 15) Digital mammography
- 16) Ultrasound contrast agents
- 17) Scatter radiation.
- 18) MRI artifacts
- 19) CT dose reduction techniques.
- 20) Radiopharmaceuticals used in PET scan and their applications.