# Syllabus for the preliminary test for the recruitment on the post of Radiologist, (Specialist Service) Class I in the Gujarat Health and Medical Services and ESIS

Marks - 200

**Questions - 200** 

Medium - English

### 1. Anatomy

> Gross and cross sectional anatomy of all the body systems.

## 2. Pathology

> Gross morphology of pathological conditions of systemic diseases affecting all organ systems.

### 3. Radiology Course

- ➤ Chest
- > Cardiovascular system
- > Musculoskeletal including soft tissue
- > Gastrointestinal system
- > Hepato-biliary-pancreatic system
- Urogenital (genito-urinary) system
- > CNS including head and neck
- Obstetrics and gynaecology
- > ENT, eye, dental, breast
- Endocrine and metabolic system
- > Clinically applied radionuclide imaging

# 4. Radiological Physics

- > Introduction of general properties of radiation and matter: Fundamentals of nuclear physics and radioactivity
- > Interaction of x-rays and gamma rays with matter and their effects on irradiated materials
- > X-ray Generating Apparatus
- > Screen-film radiography
- > Film processing: Dark room, dry processing, laser /dry chemistry cameras, artifacts.
- > Fluoroscopy: Digital including flat panel units, fluoroscopy cum radiography units
- Digital radiography: Computed Radiography, Flat panel radiography
- > Other equipments: Ultrasound including Doppler, CT, MRI and DSA
- > Contrast Media (Iodinated, MR & Ultrasound) types, chemical composition, mechanism of action, dose schedule, route of administration, adverse reaction and their management
- > Nuclear Medicine: Equipments and isotopes in various organ systems and recent advances
- > Picture Archiving and Communication System (PACS) and Radiology
- > Information System (RIS) to make a film-less department and for Teleradiology Radiation protection, dosimetry and radiation biology
- > Image quality and Quality Assurance (QA)
- > Recent advances in radiology and imaging
- 5. Indian Medical Council (Professional Conduct, Etiquette and Ethics) Regulations, 2002.
- 6. Medico Legal aspects relevant to the discipline.
- 7. Current Trends and Recent Advancements in the field of Radiology

(Prasun Pate!)
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