प्रदेश लोक सेवा आयोग, प्रदेश नं.२

स्वास्थ्य सेवा, रेडियोलोजी समूह, रेडियो डाइगनोसिस उपसमूह, नवौ तहको खुला र अन्तर सेवा प्रतियोगितात्मक परीक्षाका लागि पाठ्यक्रम

Paper II: Technical Subject

1. Basic Science

A. Anatomy

- 1. Respiratory system
- 2. Coardiovascular system
- 3. Gastrointestinal system
- 4. Hepatobiliitary System
- 5. Genito urinary system
- 6. Skeletal System
- 7. Cross sectional anatomy
- 8. Central Nervous system

B. Radiation Physics

- 1. Electromagnetic radiation & its properties
- 2. Radiation measurement and units
- 3. Production and properties of X-ray
- 4. Interaction of Radiation with matter
- 5. Properties of X-ray film, film processing
- 6. Intensifying and fluorescent screens.
- 7. X-ray absorption on the radiographic image.
- 8. Gird & filter.
- 9. Principles of Fluroscopy and IIT.
- 10. Principle of Diagnosttic ultrasound
- 11. Principle of CT
- 12. Principle of MRI
- 13. Principle of Nuclear Medicine and Imaging
- 14. Radiation Hazards and its effects

2. Radiology

A. Cardiovascular

- 1. Normal heart and pericardium
- 2. Pulmonary circulation
- 3. Acquired heart diseases
- 4. Congenital heart diseases

B. Respiratory

- 1. Normal Chest
- 2. Tumors of the lung
- 3. Inflammatory diseases of the lung
- 4. Remaining diseases of lung, pleura and soft tissue and bony thoracic cage of chest
- 5. Chest Trauma
- 6. Chest Childereen

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C. Gastrointestinal tract and abdomen

- 1. Diseases of Pharynx, esophagus, stomach and duodenum
- 2. Diseases of small bowel and large bowel Acute abdomen
- 3. Diseases of biliary tract
- 4. Diseases of Liver, spleen & pancreas

D. Urogenital Tracts

- 1. Congenital lesions
- 2. Cystic diseases of the kidney
- 3. Tumours of the kidney and ureter
- 4. Renal calculi and Nephrocalcinosis
- 5. Renal Vascular diseases
- 6. Diseases of Bladder and prostate
- 7. Gynaecoloical diseases and obstetrical study

E. Diseases related to ENT, Eye, Teeth and soft tissues

F. Central Nervous System

- 1. Normal and abnormal skull
- 2. Diseases of brain and spine
- 3. Congenital diseases
- 4. Brain and spinal tumor

G. Bone & Joints

- 1. Congenital skeletal anomalies
- 2. Diseases of bone and joints
- 3. Tumors and tumors like conditions of bone
- 4. Skeletal disorders of metabolic and endocrine diseases
- 5. Skeletal trauma

H. Endocrine and metabolic diseases

- 1. Ultrasound imaging of the whole body
- 2. CT Imaging of the whole body
- 3. MRI Imaging of the whole body
- 4. Radiological Procedures
 - 1) Urinary tract
 - a) IVI
 - b) MCU
 - c) RGP and RGU
 - d) Nephrotomography
 - 2) Billary tract and pancreas
 - a) OCG

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- b) T-toube cholangiography
- c) ERCP, PTC and PTBD
- 3) GIT
- a) Barium swallow, barium meal, barium follow through, small bowel enema, barium enema, sinogram, loopograme fistulogram.
 - 4) Reproductive system- HSG
 - 5) Vascular system
 - a) Angiography
 - b) Venography
 - c) Lymphangiography
 - 6) CNS- Mylography
 - 7) Interventional procedures