

M.D. (Radio-Diagnosis) Examination, Winter (Phase –I)

(PG Medical) – 2021

RADIOLOGICAL IMAGING IN CONGENITAL & SYSTEMIC

DISEASES(II)-III

Total Duration : 3 Hours

Total Marks : 100

Instructions : 1) Use **blue/black** ball point pen only.

2) Do not write anything on the **blank portion of the question paper.**

If written anything, such type of act will be considered as an attempt to resort to Unfair means.

3) **All** question are **compulsory.**

4) The number to the **right** indicates **full** marks.

5) Draw diagrams **wherever** necessary.

6) Distribution of syllabus in Question paper is only meant to cover entire syllabus

Within the stipulated frame. The Question paper pattern is a mere guideline.

Questions can be asked from any paper's syllabus into any question paper. Students

Cannot claim that the Question is out of syllabus. As it is only for the placement sake,

the distribution has been done.

7) Use a common answer book for all sections.

1. Imaging evaluation of spinal tuberculosis and differential diagnosis.

[1 X 25 = 25]

2. Describe in detail the TI-RADS system.

[1 X 25 =25]

3. Solve **any five** questions out of **six** :

[5 X 10 = 50]

a) Write about Placental evaluation.

b) Imaging in Subclavian steal syndrome.

c) Breast MRI in evaluation of breast cancer.

d) Imaging in ectopic pregnancy.

e) Imaging in Developmental dysplasia of the hip.

f) Diagnostic evaluation of cervical spine injury.

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MISCELLANEOUS, RADIOLOGICAL PROCEDURES, INTERVENTIONAL RADIOLOGY, RECENT

ADVANCES AND NEWER TECHNIQUES- IV

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1. Describe in detail the basic principles and techniques in image guided biopsies.

[1 X 25 = 25]

2. Discuss the radiological anatomy of Prostate and imaging assessment in a case of Ca Prostate.

[1 X 25 = 25]

3. Solve **any five** questions out of **six** :

[5 X 10 = 50]

a) Fetal circulation.

b) Percutaneous vertebroplasty.

c) Anatomy and imaging of rotator cuff pathology.

d) Discuss the role of CT and MRI in evaluation of gynaecological malignancies.

e) Embolic agents and their clinical considerations.

f) Describe in short the technique of catheter arteriography

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**RADIATION PHYSICS, PROTECTIVE MEASURES & PHYSICS INVOLVING IMAGING TECHNIQUES AND RELATED BASIC SCIENCES
e.g. ANATOMY, PHYSIOLOGY AND PATHOLOGY – I**

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1. Describe physics of MRI. Discuss merits and demerits in MRI. Comment in brief on advances of MRI.

[1 X 25 = 25]

2. Discuss the fundamental principles of colour Doppler and its advanced applications.

[1 X 25 =25]

3. Solve **any five** questions out of **six** :

[5 X 10 = 50]

a) Digital Radiography.

b) Radiation protection measures in CT & fluoroscopy.

c) Safe light.

d) Discuss factor affecting radiographic quality and method to improve it.

e) PC-PNDT Act.

f) CR artifact.

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DISEASES(I)-II

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7) Use a common answer book for all sections.

1. Describe Radiological anatomy & Imaging techniques of Pancreas. Discuss pancreatic tumours.

[1 X 25 = 25]

2. Discuss Emphysema. Describe various types of Emphysema & their imaging finding in details.

[1 X 25 = 25]

3. Solve **any five** questions out of **six** :

a) Coarctation of aorta.

b) MR Spectroscopy.

c) Pulmonary Sequestration.

d) Sturge Weber syndrome.

e) Enteroclysis.

f) Craniopharyngioma.
