

D.M.R.D.

SONGAD : WINTER - 2016

SUBJECT : ANATOMY PHYSICS APPLIED TO RADIOLOGY & IMAGING
INCLUDING CONTRAST MEDIA
(PAPER - I)

Day : Saturday
Date : 03/12/2016

Time : 2.00 P.M. TO 5.00 P.M.
Max. Marks : 100

N.B.:

- 1) Q.No.1 and Q.No.2 are **COMPULSORY**.
- 2) Attempt **ANY SEVEN** questions from Q.3 to Q.10.
- 3) Figures to the right indicate **FULL** marks.

- Q.1 Describe with the help of neat diagrams, anatomy of a typical lumbar vertebra. Describe various views for radiographic depiction of lumbar spine. Enumerate various radiographic signs of spondylolysis. [15]
- Q.2 Describe the principles and radiological applications of MR angiography. [15]
- Attempt **ANY SEVEN** of the following: [70]
- Q.3 Discuss briefly the interactions of ionizing radiations with matter with their significance in diagnostic radiology.
- Q.4 Discuss Fast MR sequences, highlighting their imaging relevance.
- Q.5 Discuss the AERB guidelines for X ray establishments.
- Q.6 Write briefly on Thermo luminescent dosimeter.
- Q.7 Write in brief the principle and types of digital radiography. Outline its advantages and disadvantages.
- Q.8 Describe the principle and clinical applications of dual energy CT scanning.
- Q.9 Define and classify radiographic grids. Describe various uses in radiography.
- Q.10 Describe technique of contrast parotid sialography and enumerate its indications. How is MR sialography done?

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SONGAD : WINTER - 2016
SUBJECT : CARDIOVASCULAR SYSTEM, RESPIRATORY SYSTEM & GASTRO
INTESTINAL TRACT
(PAPER - II)

Day : Monday
Date : 05/12/2016

Time : 2.00 P.M. TO 5.00 P.M.
Max. Marks : 100

N.B.:

- 1) Q.No.1 and Q.No.2 are **COMPULSORY**.
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- Q.1 Describe the anatomic location and drainage of thoracic lymph nodes. [15]
Describe in brief the CT patterns of lymph node involvement in various pulmonary and extra-pulmonary diseases.
- Q.2 Discuss the role of CT in differential diagnosis of Liver masses. [15]
- Attempt **ANY SEVEN** of the following: [70]
- Q.3 Describe the imaging features of gastric lymphoma. How will you differentiate it from carcinoma stomach?
- Q.4 Discuss the imaging and clinical diagnosis of Conn's Syndrome.
- Q.5 Discuss the imaging evaluation in a child with acute abdomen with a flow chart.
- Q.6 Describe the role of imaging and intervention in portal hypertension.
- Q.7 Discuss human Calcium metabolism. Compare imaging features of primary and secondary hyperparathyroidism.
- Q.8 Discuss pathophysiology and imaging features of Acute respiratory distress syndrome.
- Q.9 Enumerate the causes of abdominal masses in neonates. Discuss their imaging features in brief.
- Q.10 Discuss the causes and imaging features of constrictive pericarditis.

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SONGAD : WINTER - 2016
SUBJECT : HEAD & NECK, CENTRAL NERVOUS SYSTEM & GENTOURINARY
SYSTEM INCLUDING OBSTETRICS
(PAPER - III)

Day : Wednesday
Date : 07/12/2016

Time : 2.00 P.M. TO 5.00 P.M.
Max. Marks : 100

N.B.:

- 1) Q.No.1 and Q.No.2 are **COMPULSORY**.
- 2) Attempt **ANY SEVEN** questions from Q.3 to Q.10.
- 3) Figures to the right indicate **FULL** marks.

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| Q.1 | Classify Adrenal tumours and discuss the role of CT and MRI in evaluating them. | [15] |
| Q.2 | Enumerate various common extra-axial intracranial tumours. Describe CT and MRI signs of an acoustic schwannoma. | [15] |
| | Attempt ANY SEVEN of the following: | [70] |
| Q.3 | Discuss the genesis and imaging features of Hill Sach's lesion. | |
| Q.4 | Describe the anatomy and role of imaging of Ductus Venosus. | |
| Q.5 | Discuss bone destruction patterns in bone tumours. | |
| Q.6 | Discuss the role of imaging of orbital pseudotumour. | |
| Q.7 | Describe the imaging features of congenital dislocation of Hip. | |
| Q.8 | Enumerate various causes of supra-sellar masses. Describe imaging features in craniopharyngioma. | |
| Q.9 | Enumerate the intramedullary neoplasms of spinal cord. Discuss their imaging features. | |
| Q.10 | Discuss the radiological anatomy with role of MRI and HRCT in temporal bone imaging. | |

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