

DNB RADIOLOGY DECEMBER 2014

PAPER I

PART A

1. Discuss the grading, imaging features on MRI and differential diagnosis of glioblastoma multiforme. 3+5+2
2. Enumerate the causes of hypertrophic osteoarthropathy. Briefly describe its radiological findings, differential diagnosis and role of Nuclear Medicine. 2+(4+2+2)
3. Enumerate causes of unilateral proptosis. Describe briefly imaging findings of optic glioma and corticocavernous fistula. 2+4+4
4. Enumerate various causes of hemolytic anaemia. Describe briefly the imaging findings in a case of thalassemia major. Briefly discuss its differential diagnosis from sickle cell anemia. 2+5+3
5. List the causes of posterior scalloping of vertebrae. Describe skeletal changes seen in von Recklinghausen's disease. 2+8

PART B

6. Describe imaging features of breast cancer on mammography, ultrasound and MRI. Briefly outline approach (by flow chart) in BI-RADS 4 breast lesion. (3+2+3)+2
7. Classify neural tube closure defects of brain. Briefly describe types of Arnold Chiari malformation and discuss their imaging findings. 2+2+6
8. Enumerate causes of painful limp in a child unable to bear weight. Briefly discuss role of plain X-ray, arthrography, US, CT, MRI and Scintigraphy in arriving at diagnosis. 2+(2+1+1+1+2+1)
9. Classify cysts of jaw. Describe briefly imaging features of each type of cyst. Draw suitable diagram(s) to describe various types. 2+6+2
- 10 a) Embolization in management of acute hemorrhage. 5+5
b) Screening mammography – current status.

PAPER II

PART A

1. Define and enumerate causes of restrictive cardiac diseases. Discuss the role of various imaging modalities along with imaging features in two such diseases. (1+2)+(3+4)
2. Enumerate causes of cystic mediastinal lesions. Describe imaging features in any 2 conditions. 2+(4+4)
3. A 50 year old male patient presents in emergency with acute chest pain. Discuss the likely causes and approach to diagnose such patients. Discuss the role of CT angiography in these patients. 5+5
4. a) Doppler assessment of AV fistula for hemodialysis access. 5+5
b) Role of MDCT in cyanotic heart disease.
5. a) Castleman's disease. 5+5
b) Role of Dual energy CT in pulmonary embolism.

PART B

6. Enumerate causes of solitary pulmonary nodules. Discuss the role of various newer imaging techniques in assessment of these lesions. 2+8
7. Discuss various chest complications in a post-operative patient. Describe in detail imaging features in any two conditions. 4+(3+3)
8. A 55 years male patient presents with left opaque hemithorax. Enumerate the likely causes and discuss the imaging features in two common conditions. 2+(4+4)
9. Discuss various types of aortic aneurysms. Describe various modalities to investigate such patients with advantages and disadvantages of each. Discuss briefly role of interventional procedure. 2+6+2
10. a) Takayasu's arteritis. 5+5
b) Role of RFA in chest tumors.

PAPER III