

SPINE SURGERY
THEORY PAPER

Time : 3 hours

Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on:

1. a) The relevant applied anatomy of Atlanto-axial joint. 5+5
b) Clinical features and diagnosis of Arnold Chiari malformation (ACM).
2. a) Neuro-monitoring in spine surgery. 3+(3+5)
b) Mention briefly historical perspectives (Wake-up test), current indications, modalities.
3. a) Discuss about criteria for diagnosis and medical management of ankylosing spondylitis. 5+5
b) Management of kyphotic deformity at thoracolumbar junction in ankylosing spondylitis.
4. a) Clinical features and surgical management of cervicothoracic tuberculosis. 7+3
b) Management of X-DR Tuberculosis.
5. a) Flexion Teardrop fracture. 5+5
b) TLICS (Thoraco lumbar injury classification and severity score)
6. a) Classify lumbar disc prolapse. Describe the clinical presentation depending upon the location of the herniation. 5+5
b) Transforaminal endoscopic discectomy.
7. Describe the principles of Halo application in adult and pediatric patients. Discuss the associated complications. 6+4
8. a) What are the different types of Lumbar Spondylolisthesis? What is Meyerding's grading? 5+5
b) What are the treatment options for high grade L5/S1 spondylolisthesis (grade 4 or 5)?
9. a) How will you evaluate a 70-year-old man with T-8 Spinal secondary with neurological deficit? 6+4
b) Osteoid osteoma vertebra.
10. Define Spinal Shock. Outline the management of a patient with acute spinal cord injury at the mid thoracic level. 10
