

The West Bengal University of Health Sciences
MS (Orthopaedics) May - June, 2022 Examination

Paper: IV

Full Marks: 100
Time: 3 hours

Attempt all questions

1. Enumerate the biologic and biophysical technologies for the enhancement of fracture repair. What is the role of BMP in orthopaedics. 6+4
2. Discuss the Recent advances in detection of Mycobacterium Tuberculosis. What is the role of GeneXpert/CB-NATT and its specific advantages ? 5+5
3. Write Short notes on: 5+5
 - a) Biomechanical principles of total knee replacement
 - b) Gap Balancing Technique
4. Define distraction histogenesis. What are the principles of distraction histogenesis? Enumerate the indications of distraction histogenesis in orthopaedics. 5+5
5. Write Short notes on: 5+5
 - a) Bearing surfaces in hip replacement
 - b) Principles of bone banking
6. Current concept in the management of skeletal Metastasis. 10
7. Discuss advances in Articular Cartilage Tissue. engineering and repair. 5+5
8. What is highly crosslinked polyethylene ? How has its effect in modern total hip arthroplasty ? 2+8
9. What is Meta analysis. How it is helpful in advances of modern orthopaedics. 2+8
10. What is Piezoelectrical Currents ? Discuss the effects of Electricity in Bones. 2+8