

ARTHROPLASTY
THEORY PAPER

Time : 3 hours

Max. Marks : 100

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

Write short notes on:

1. Principles of surface replacement arthroplasty of hip. Elaborate the reasons of failure of previous historical designs vis a vis recent advancement. 10
2. Recent advances in bearing surfaces of total hip arthroplasty. 10
3. Ceramic bearing surfaces in arthroplasty. 10
4. Discuss causes of loosening after a total hip replacement. Discuss its clinical features, diagnosis and management. 10
5. Classify peri-prosthetic fracture following TKR. Discuss management of each. 10
6. Classify peri-prosthetic fractures following THR. Outline their management strategies. 10
7. Discuss various methods of preventing deep vein thrombosis following total knee replacement. Discuss their merits and demerits. 10
8. Outline the biomechanical principles of total knee replacement. 10
9. Briefly describe the relevant biomechanics of the lower limb, particularly in relation to bone cuts in total knee replacement. 10
10. Bone defects encountered during total knee replacement and their management 10
