

Aug - 2026

**BLDE (DEEMED TO BE UNIVERSITY)
POST GRADUATE DEGREE EXAMINATION**

[Time: 3 Hours]

[Max. Marks: 100]

**MS ORTHOPAEDICS – PAPER - I
QP CODE: 5069**

Your answer should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
Each answer should be written on new page only.
Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. Discuss the evaluation and management of metastatic lesions in long bones.
2. Describe various approaches to hip joint and biomechanics of hip joint.

Short Essay

6x10=60 Marks

3. A polytrauma patient develops fat embolism syndrome. Discuss pathogenesis and pathophysiology of fat embolism.
4. Femoral triangle.
5. Principles of tissue engineering in orthopaedics.
6. A patient with rheumatoid arthritis develops progressive joint destruction. Discuss immunopathogenesis of rheumatoid arthritis.
7. Peripheral nerve injury: classification and regeneration.
8. Cryotherapy – indications and contraindications.

19/08

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[Time: 3 Hours]

[Max. Marks: 100]

MS ORTHOPAEDICS – PAPER - II

QP CODE: 5070

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. A 22-year-old athlete sustains multiple ligament injury of the knee following sports trauma. Discuss evaluation, imaging and management of multiligament-knee injuries.
2. Discuss Hoffa's fracture of femoral condyle, classification, mechanism of injury and management.

Short Essay

6x10=60 Marks

3. Fracture disease.
4. Rehabilitation following brachial plexus injury.
5. Fracture neck of talus: complications and management.
6. A patient develops complex regional pain syndrome following distal radius fracture. Discuss diagnosis and management.
7. Ilizarov principles in trauma reconstruction.
8. Myositis ossificans.

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MS ORTHOPAEDICS – PAPER - III

QP CODE: 5071

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. A 15-year-old adolescent presents with progressive deformity and pain around the knee. Radiology suggests osteosarcoma. Discuss diagnosis, staging and management.
2. A 6-year-old child presents with painless limp and progressive shortening of the lower limb. Discuss pathology, diagnosis and management of developmental coxa vara.

Short Essay

6x10=60 Marks

3. Adhesive capsulitis.
4. Ponsetti technique for correction of club foot.
5. Osteoporosis: diagnosis and management.
6. A patient presents with clawing of fingers, sensory loss and intrinsic muscle wasting of hand. Discuss orthopaedic manifestations and management of Hansen's disease.
7. Carpal tunnel syndrome.
8. Cerebral palsy: orthopaedic management.

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MS ORTHOPAEDICS – PAPER - IV

QP CODE: 5072

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

Write Question No. in the middle of the page.

Long Essay

2x20=40 Marks

1. A 30-year-old patient with massive irreparable rotator cuff tear is being evaluated for biological reconstruction. Discuss recent advances in biologic augmentation and superior capsular reconstruction.
2. A 70-year-old patient with osteoporotic vertebral compression fractures requires intervention. Discuss recent advances in osteoporosis management and vertebral augmentation procedures.

Short Essay

6x10=60 Marks

3. Nanotechnology in orthopaedics.
4. A patient with metastatic bone disease requires personalized surgical planning. Discuss precision medicine in orthopaedic oncology.
5. Recent advances in limb lengthening and deformity correction.
6. A patient with non-union tibial fracture is planned for biologic enhancement. Discuss platelet-rich plasma and growth factor therapies.
7. AI in modern orthopaedics.
8. MRI in orthopaedics.