

# National Board of Examinations

**Question Paper Name :** DNB Orthopaedics Paper1  
**Subject Name :** DNB Orthopaedics Paper1  
**Duration :** 182  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0  
**Is Section Default? :** No

**Question Number : 1 Question Id : 32718744140 Consider As Subjective : Yes**

**Please write your answers in the answer booklet within the allotted pages as follows:-**

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. Describe articular cartilage in relation to:

- Structural anatomy & histology. [5]
- Mechanical property and functioning. [5]

**Question Number : 2 Question Id : 32718744141 Consider As Subjective : Yes**

Bone-brain axis:

- Role in bone health. [5]
- Role in fracture healing. [5]

**Question Number : 3 Question Id : 32718744142 Consider As Subjective : Yes**

RED-S in male sports person:

- a) Pathophysiology and clinical presentation. [5]
- b) Biomechanical markers and management. [5]

**Question Number : 4 Question Id : 32718744143 Consider As Subjective : Yes**

Describe endosteal and periosteal blood supply of proximal humerus fracture. [10]

**Question Number : 5 Question Id : 32718744144 Consider As Subjective : Yes**

Knee biomechanics:

- a) What is pivoting point in the knee? [5]
- b) How alignment of lower extremity affects the strain while pivoting activity? [5]

**Question Number : 6 Question Id : 32718744145 Consider As Subjective : Yes**

What is spinopelvic harmony? Describe various parameters in evaluating patients with adult spinal deformity. [10]

**Question Number : 7 Question Id : 32718744146 Consider As Subjective : Yes**

Describe holistic care for patients with fracture neck femur in geriatric population. [10]

**Question Number : 8 Question Id : 32718744147 Consider As Subjective : Yes**

Tendon transfer:

- a) What is non-phasic tendon transfer? [5]
- b) Workflow of training muscle after non-phasic transfer. [5]

**Question Number : 9 Question Id : 32718744148 Consider As Subjective : Yes**

Fracture non-union:

- a) Classify the types of non-union. [5]
- b) How ultrasonic therapy stimulates fracture healing? [5]

**Question Number : 10 Question Id : 32718744149 Consider As Subjective : Yes**

a) How to define a trial comparing the outcome of two types of interventions in patients with ACL injury allocated randomly into two groups? [5]

I. Group-1 ACL reconstruction + LET

II. Group-2 ACL + ALL reconstruction

b) How will you ensure blinding in such group of patients? [5]