

# National Board of Examinations

<b>Question Paper Name :</b>	DNB Orthopaedics Paper1
<b>Subject Name :</b>	DNB Orthopaedics Paper1
<b>Creation Date :</b>	2023-10-15 14:12:13
<b>Duration :</b>	180
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## DNB Orthopaedics Paper1

<b>Group Number :</b>	1
<b>Group Id :</b>	3271872475
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	180
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## DNB Orthopaedics Paper1

<b>Section Id :</b>	3271872478
<b>Section Number :</b>	1
<b>Section type :</b>	Offline

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	3271872482
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718724983 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

**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. Acute Compartment syndrome:
- Describe the pathophysiology. [3]
  - Clinical features and diagnosis. [3]
  - Management of a case of an acute compartment syndrome with fracture both bones leg. [4]

**Question Number : 2 Question Id : 32718724984 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Peripheral nerve injury:

- a) Describe the anatomy of ulnar nerve. [3]
- b) Enumerate the causes of claw hand and describe the differences between low and high ulnar nerve palsy. [3]
- c) Algorithm for management of ulnar nerve palsy. [4]

**Question Number : 3 Question Id : 32718724985 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

In polytrauma patients:

- a) Discuss the trauma associated coagulopathy (TAC). [3]
- b) Discuss pathophysiology and mechanisms leading to lethal triad of mortality. [4]
- c) Describe early total care. [3]

**Question Number : 4 Question Id : 32718724986 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

- a) Describe the regulation of mineral metabolism by 1,25-(OH)<sub>2</sub> vitamin D. [3]
- b) Discuss the classification of rickets. [3]
- c) Management of a child with severe genu valgum deformity in both lower limbs. [4]

**Question Number : 5 Question Id : 32718724987 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

- a) Discuss the factors influencing fracture healing. [4]
- b) Bone graft substitutes and their role in orthopaedics and traumatology. [6]

**Question Number : 6 Question Id : 32718724988 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 10**

Discuss the biomechanics, clinical uses and advantages of patella tendon bearing cast. [5+3+2]

**Question Number : 7 Question Id : 32718724989 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 10**

a) Describe various axes of the lower limb. [3]

b) Rational of the resection and gap balancing in knee arthroplasty. [3]

c) Discuss the component alignment in total knee arthroplasty. [4]

**Question Number : 8 Question Id : 32718724990 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 10**

What are the phases of bone healing? Describe the bone remodelling and its cycle. [3+7]

**Question Number : 9 Question Id : 32718724991 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 10**

a) Risk factors for the development of osteoporosis. [5]

b) Risk assessment tools for osteoporosis. [2]

c) Prevention strategies for risk of osteoporosis. [3]

**Question Number : 10 Question Id : 32718724992 Question Type : SUBJECTIVE Consider As**

**Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 10**

a) Thomas knee test. [4]

b) Osteocytes. [2]

c) Positron emission tomography. [4]