

National Board of Examinations

Question Paper Name :	DNB Orthopaedics Paper1
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Creation Date :	2024-10-17 16:12:24
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DNB Orthopaedics Paper1

Group Number :	1
Group Id :	3271872837
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DNB Orthopaedics Paper1

Section Id :	3271872840
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	100
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872844
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718729654 Question Type : SUBJECTIVE Consider As Subjective : Yes

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. Discuss blood supply to the bone (adult and pediatric) and draw diagrams of the same highlighting the important differences between the blood supply of the adult and pediatric bone. Discuss the types of bone formation. Draw a histologic diagram of physis-epiphysis complex and highlight the zone usually injured in physeal fractures and pathologic zone in rickets and scurvy. [3+4+3]

Question Number : 2 Question Id : 32718729655 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Discuss Allograft bone and their types, their processing, characteristics and antigenicity. Describe Urist stages of allograft healing. [5+5]

Question Number : 3 Question Id : 32718729656 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Discuss pathology, clinical features, laboratory findings and radiographic findings of Vitamin D dependent rickets, Vitamin D resistant rickets and Hypophosphatasia. [3+3+4]

Question Number : 4 Question Id : 32718729657 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Explain FRAX and FRAX Plus score. Enumerate current evidence-based treatment guidelines for osteoporosis and sarcopenia. [5+5]

Question Number : 5 Question Id : 32718729658 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Explain the etiopathogenesis of Down syndrome. Enumerate musculoskeletal manifestations of Down Syndrome. Enumerate the HLA-B27 associated rheumatologic diseases (minimum four). Explain Extractable nuclear antigen test. [3+3+2+2]

Question Number : 6 Question Id : 32718729659 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the affected tissues, pathogenesis, organism, clinical features and management of

Erysipelas, Cellulitis, Pyomyositis, Necrotizing fasciitis and Gas Gangrene. [2+2+2+2+2]

Question Number : 7 Question Id : 32718729660 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Explain the etiopathogenesis of crush syndrome. Describe its clinical features and management. [4+6]

Question Number : 8 Question Id : 32718729661 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe the pathogenesis of DVT-PE (Deep Vein Thrombosis- Pulmonary embolism) after major orthopedic surgery/ orthopedic injury and its clinical features. Describe the current evidence for drug based prevention of DVT-PE i.e. type of drugs, mechanism of action, adverse effects and duration of prophylaxis after major orthopedic injury/ orthopedic surgery. [4+6]

Question Number : 9 Question Id : 32718729662 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Explain the pathophysiology of EMG and NCV (latency, conduction velocity and evoked response) and its interpretation in traumatic peripheral nerve injury. Explain with the example of "an Iatrogenic Radial Nerve injury while operating a closed humerus diaphyseal fracture with butterfly fragment". [5+5]

Question Number : 10 Question Id : 32718729663 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

Describe hip biomechanics along with a diagram. Explain how a stick in the opposite hand decreases the load on the hip along with a diagram. [5+5]