

National Board of Examinations

Question Paper Name :	DrNB Clinical Immunology and Rheumatology Paper2
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DrNB Clinical Immunology and Rheumatology Paper2

Group Number :	1
Group Id :	3271872457
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DrNB Clinical Immunology and Rheumatology Paper2

Section Id :	3271872460
Section Number :	1

Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions to be attempted :	10
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	3271872464
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718724803 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. A 38-year-old lady with history of dry eyes presented with sudden onset pain in right groin and pelvic region. The X-ray pelvis showed looser zones and fracture at pubic ramus. She was diagnosed to have osteomalacia.

- Mention the immune and non-immune causes of osteomalacia. [3]
- Discuss the evaluation of osteomalacia with a flow chart. [4]
- Describe the management of this patient in the above scenario. [3]

Question Number : 2 Question Id : 32718724804 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 30-year-old male with inflammatory polyarthritis presented with subacute onset of dry cough and dyspnea for 3 months.

- a) Discuss pathogenesis of rheumatoid arthritis-associated interstitial lung disease (RA-ILD). [4]
- b) Write the types of ILD with imaging findings in rheumatoid arthritis. [3]
- c) Discuss the evidence-based management of RA-ILD. [3]

Question Number : 3 Question Id : 32718724805 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 with the help of a diagram(s) the anatomy of sacroiliac joints. [4]
- b) What are the radiological lesions in the MRI of spine in spondyloarthritis? [3]
- c) Discuss the importance of enthesitis in the pathogenesis of spondyloarthritis. [3]

Question Number : 4 Question Id : 32718724806 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 design and outcome of trials comparing combination conventional DMARDs vs biologic first strategy in rheumatoid arthritis. [6]
- b) Discuss the causes and management of patients with rheumatoid arthritis who are refractory to treatment with anti-TNF agents. [4]

Question Number : 5 Question Id : 32718724807 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 role of functional genomics in pathogenesis of spondyloarthritis. [5]
- b) Discuss the pathways involved in the structural damage in axial spondyloarthritis. [5]

Question Number : 6 Question Id : 32718724808 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) Compare the Kellgren-Lawrence system and OARSI system for grading severity of osteoarthritis of knee. [3]
- b) What are the parameters assessed in MRI knee of a patient with osteoarthritis of knee? [2]
- c) Describe treatment algorithm for management of knee and hip osteoarthritis. [5]

Question Number : 7 Question Id : 32718724809 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 with diagram the blood supply of femoral head. [2]
- b) Write briefly on Ficat-Arlet grading system of osteonecrosis and mention modification proposed by Association of Research Circulation Osseous (ARCO). [3]
- c) What are the risk factors for osteonecrosis? [2]
- d) Write in brief about various treatment modalities in osteonecrosis. [3]

Question Number : 8 Question Id : 32718724810 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) Enumerate the conditions associated with proliferative bone disease. [2]
- b) Write briefly on conditions associated with diffuse idiopathic skeletal hyperostosis (DISH). [3]
- c) Discuss the diagnostic criteria for DISH. [3]
- d) Describe extraspinal involvement in DISH. [2]

Question Number : 9 Question Id : 32718724811 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) Enumerate the uricosuric drugs. [1]
- b) Describe diagrammatically the mechanism of action of uricosuric agents. [2]
- c) Write briefly on mechanism of action and indications of newer urate lowering drugs. [4]
- d) Discuss the causes of renal disease in patients with hyperuricemia. [3]

Question Number : 10 Question Id : 32718724812 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 schematically the mechanisms of muscle fiber damage in inflammatory myositis (IIM). [5]
- b) Discuss the etiological agents, clinical features and management of infectious myopathies. [3]
- c) Discuss mechanism of action of Lenabasum and its role in the management of specific manifestations of IIM. [2]