

National Board of Examinations

Question Paper Name :	DrNB Clinical Immunology and Rheumatology Paper3
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DrNB Clinical Immunology and Rheumatology Paper3

Group Number :	1
Group Id :	3271872713
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100

DrNB Clinical Immunology and Rheumatology Paper3

Section Id :	3271872716
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 :	3271872720
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718728414 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. a) Describe the functional anatomy of temporomandibular(TM) joint. [3]

b) What are the various TM joint disorders? [2.5]

c) How to assess for TM joint involvement? [2.5]

d) How to treat TM joint involvement in arthritis? [2]

Question Number : 2 Question Id : 32718728415 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) What are the characteristic histopathologic findings in juvenile dermatomyositis(JDM)? [3]

b) Discuss the common antibodies found in JDM and their clinical associations. [4]

c) What are the management strategies for calcinosis? [3]

Question Number : 3 Question Id : 32718728416 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) Describe the pathogenesis of drug-induced lupus. [4]

b) Write clinical manifestations of drug-induced lupus. [2]

c) Enumerate differences between drug-induced lupus and systemic lupus erythematosus. [2]

d) Write laboratory features of drug induced lupus. [2]

Question Number : 4 Question Id : 32718728417 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

a) Write the differences between autoimmune and autoinflammatory disorders. [2]

b) Describe the mutations in monogenic autoinflammatory diseases with examples. [4]

c) Describe the clinical features and treatment of syndrome with deficiency of adenosine deaminase. [4]

Question Number : 5 Question Id : 32718728418 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the immunopathogenesis of sarcoidosis. [4]
- b) Describe the musculoskeletal involvement in sarcoidosis. [4]
- c) How does early-onset childhood sarcoidosis differs from adult onset sarcoidosis? [2]

Question Number : 6 Question Id : 32718728419 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What do you understand by Artificial Intelligence? [4]
- b) Discuss the potential applications of Artificial Intelligence in Rheumatology. [6]

Question Number : 7 Question Id : 32718728420 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Describe the role of Tyrosine Kinase 2 (Tyk2) in cytokine signaling pathways. [4]
- b) Mention the potential uses and adverse effects of Tyk2 inhibitors. [3+3]

Question Number : 8 Question Id : 32718728421 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) What is the role of occupational therapy in the management of rheumatic diseases? [2]
- b) Discuss the role of yoga in management of rheumatic diseases. [2]
- c) Describe the goals of exercise prescription in rheumatic diseases. [3]
- d) What are the various types of exercise? Give examples of each. [3]

Question Number : 9 Question Id : 32718728422 Question Type : SUBJECTIVE Consider As Subjective : Yes

Correct Marks : 10

- a) Discuss the pathogenesis of connective tissue disease associated interstitial lung disease (CTD-ILD). [4]
- b) Write the risk factors for scleroderma-ILD. [2]
- c) Write assessment and current evidence based treatment modalities for scleroderma-ILD. [4]

Question Number : 10 Question Id : 32718728423 Question Type : SUBJECTIVE Consider As

Subjective : Yes

Correct Marks : 10

- a) Describe IL-18 biology and its role in inflammatory diseases. [3+3]
- b) What are the potential roles of targeting IL-18 in Rheumatology? [4]