

# National Board of Examinations

<b>Question Paper Name :</b>	DrNB Clinical Immunology and Rheumatology Paper3
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## DrNB Clinical Immunology and Rheumatology Paper3

<b>Group Number :</b>	1
<b>Group Id :</b>	3271871920
<b>Group Maximum Duration :</b>	0
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<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
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<b>Show Progress Bar? :</b>	No

## DrNB Clinical Immunology and Rheumatology Paper3

<b>Section Id :</b>	3271871923
<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>	3271871927
<b>Question Shuffling Allowed :</b>	No
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 32718718812 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 30-year-old lady diagnosed with systemic sclerosis presented with symptoms of gastro-oesophageal reflux, persistent nausea and abdominal bloating:

- Enlist the pathological changes in gastrointestinal tract in systemic sclerosis. [4]
- Write in brief the microbiome changes in systemic sclerosis. [2]
- Write a note on pharmacological measures for treatment of different gastrointestinal abnormalities in systemic sclerosis. [4]

**Question Number : 2 Question Id : 32718718813 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 10-year-old child presented with casualty with severe pain in anterior chest and around knee joint with fever. He was diagnosed with chronic recurrent multifocal osteomyelitis (CRMO)

- a) Enumerate the clinical presentation and differentials of CRMO. [4]
- b) Describe the diagnostic criteria of CRMO. [3]
- c) Discuss the treatment of CRMO. [3]

**Question Number : 3 Question Id : 32718718814 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Regarding rheumatic syndromes related to malignant diseases:

- a) Enlist the various rheumatic paraneoplastic syndromes. [5]
- b) Write a note on common malignancies associated and diagnostic work up for oncogenic osteomalacia. [3]
- c) Describe the clinical features of carcinomatous polyarthritis. [2]

**Question Number : 4 Question Id : 32718718815 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 44-year-old male presented with progressive breathlessness, cough and arthralgia for 6 months. The investigations revealed interstitial lung disease (ILD) and strongly positive ANA.

- a) Discuss the similarities and differences between interstitial pulmonary fibrosis with autoimmune features (IPAF) and Connective Tissue Disorder (CTD) associated ILD. [3]
- b) Write briefly on recent trials of anti-fibrotics in CTD associated ILD. [7]

**Question Number : 5 Question Id : 32718718816 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 60-year-old entrepreneur presented with widespread aches and pains with lack of sleep. She was diagnosed with fibromyalgia:

- a) Write briefly on ACR 2010 preliminary diagnostic criteria of fibromyalgia. [4]
- b) Describe the non pharmacologic approaches in management of fibromyalgia. [6]

**Question Number : 6 Question Id : 32718718817 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Advances in management of ANCA vasculitis (AAV)

- a) Describe RITAZERAM trial in ANCA vasculitis. [4]
- b) Discuss the role of complement system in pathogenesis and therapeutics of AAV. [3+3]

**Question Number : 7 Question Id : 32718718818 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Regarding macrophage activation syndrome:

- a) Discuss clinical features and criteria for rheumatic disease associated macrophage activation syndrome. [2+2]
- b) Describe immune-pathogenesis of secondary macrophage activation syndrome. [2]
- c) Newer biological drugs for management of macrophage activation syndrome. [4]

**Question Number : 8 Question Id : 32718718819 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 40-year-old lady diagnosed with cutaneous lupus erythematosus presented with flare of skin lesions.

- a) Classify sun protective agents. [5]
- b) Discuss the key components of innate immune system pathways activated in systemic lupus erythematosus. [5]

**Question Number : 9 Question Id : 32718718820 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 25-year-old male presented with recurrent oral ulcers, recurrent painful redness of eyes and skin nodules. He was diagnosed with Behcet's disease.

- a) Discuss immune-pathogenesis of Behcet's disease. [4]
- b) Write a note of management of mucocutaneous and systemic Behcet's disease. [2+2]
- c) Management of vascular thrombosis in Behcet's disease. [2]

**Question Number : 10 Question Id : 32718718821 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 10**

Antiphospholipid syndrome (APS):

- a) Write briefly on risk factor, pathophysiology and management of renal involvement in APS. [5]
- b) Write briefly on inflammatory mechanisms implicated in pathogenesis of APS. [5]