

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 :	3271871300
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 :	3271871303
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 : 3271871307
Question Shuffling Allowed : No
Is Section Default? : null

Question Number : 1 Question Id : 32718712052 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 50-year-old gentleman diagnosed with rheumatoid arthritis was admitted with central chest pain and exertional dyspnoea.

- Describe the cardiovascular involvement in patients with rheumatoid arthritis. [5]
- Write mechanisms for increased cardiovascular risk in rheumatoid arthritis with appropriate diagram. [5]

Question Number : 2 Question Id : 32718712053 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 diagnosed with spondyloarthritis was admitted with vertebral fracture after a low impact fall in his house.

- a) Discuss impact of inflammation on bone metabolism and its mechanism. [4]
- b) Describe the tools to assess generalised osteoporosis in rheumatology setting. [3]
- c) Write briefly on targeted disease modifying therapies and bone loss. [3]

Question Number : 3 Question Id : 32718712054 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 impact of disease modifying anti-rheumatic drugs on outcome of COVID-19 illness. [3]
- b) Discuss the immunogenicity and efficacy of vaccine against SARS CoV2 in immune mediated disease. [7]

Question Number : 4 Question Id : 32718712055 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) Write briefly on immune target interactions in pathogenesis of psoriatic arthritis with implications in management. [5]
- b) Mechanisms and evidences of efficacy of Risankizumab in psoriatic arthritis. [3]
- c) Central sensitisation and its significance in psoriatic arthritis. [2]

Question Number : 5 Question Id : 32718712056 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 differences between at risk, preclinical and early lupus. [2]
- b) Write briefly on differences in natural history of early lupus and undifferentiated connective tissue disease. [3]

c) What is the evidence for intervention in preclinical lupus? [3]

d) Enumerate the environmental triggers of lupus. [2]

Question Number : 6 Question Id : 32718712057 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) Elaborate on ASAS/OMERACT criteria for positive inflammatory and structural lesions in MRI of sacroiliac joints. [5]

b) Discuss with evidence available for the management and outcome of non-radiographic spondyloarthritis. [4+1]

Question Number : 7 Question Id : 32718712058 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) Write briefly on safety of paternal use of various DMARDs. [2]

b) Discuss the benefit versus risk of different methods of contraception in patients with autoimmune rheumatic diseases. [8]

Question Number : 8 Question Id : 32718712059 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 comorbidities associated with psoriatic arthritis. [5]

b) How would you factor in these comorbidities for therapeutic decision making as per recent guidelines for psoriatic arthritis 2021? [5]

Question Number : 9 Question Id : 32718712060 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) Define polyarticular osteoarthritis. [2]
- b) Write MRI based outcome measures in osteoarthritis. [4]
- c) Write principles of management of osteoarthritis. [2]
- d) Efficacy of glucosamine and chondroitin sulphate in management of osteoarthritis. [2]

Question Number : 10 Question Id : 32718712061 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 renal tubular handling of urate. [5]
- b) Role of Dual energy CT in diagnosis of gout. [2]
- c) Principles for urate lowering therapy for management of gout. [3]