

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 :	3271871301
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 Paper3

Section Id :	3271871304
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 : 3271871308
Question Shuffling Allowed : No
Is Section Default? : null

Question Number : 1 Question Id : 32718712062 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 presented with progressive dyspnoea and cough, tightening of skin and bluish discoloration of fingers on exposure to cold. The rheumatologist has prescribed anti-fibrotic therapy for her.

- Enumerate the effector cells of fibrosis in scleroderma. [1]
- Write on phenotype and mechanisms of activation of scleroderma fibroblast. [4]
- Briefly mention the evidences of anti-fibrotic therapy in systemic sclerosis. [5]

Question Number : 2 Question Id : 32718712063 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 2016 ACR / EULAR criteria of fibromyalgia. [5]
- b) Write pointwise recommendations for management of patients diagnosed with fibromyalgia. [5]

Question Number : 3 Question Id : 32718712064 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 prevalence and incidence of cancers in different subsets of inflammatory myositis (IIM). [2]
- b) What are pathogenic mechanisms associated with cancer risk in IIM? [2]
- c) Discuss the clinical and serological predictors of cancers in patients with IIM. [6]

Question Number : 4 Question Id : 32718712065 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 mechanisms of obesity induced inflammation. [5]
- b) Discuss in brief the relation of diet and fasting with disease activity in patients with gout. [5]

Question Number : 5 Question Id : 32718712066 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 polymyalgia rheumatica (PMR). [2]
- b) Compare the diagnostic criteria and classification criteria for PMR. [5]
- c) Write in brief about recent trials in management of giant cell arteritis. [3]

Question Number : 6 Question Id : 32718712067 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 female diagnosed with rheumatoid arthritis is planned for knee replacement.

- a) What are the special pre-anaesthetic examination specific to this patient? [5]
- b) Describe the perioperative management with conventional and biologic disease modifying drugs. [5]

Question Number : 7 Question Id : 32718712068 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 the components, strengths, and weakness of ACR criteria for the diagnosis of Sjogren's syndrome. [3+1+1]
- b) Discuss the imaging findings in ultrasound of salivary gland in patients with Sjogren's syndrome. [3]
- c) How does salivary gland ultrasound add to the classification accuracy in Sjogren's syndrome? [2]

Question Number : 8 Question Id : 32718712069 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) Enlist the rheumatological manifestations of arthritogenic alpha virus. [1]
- b) Describe the cellular and humoral mechanisms for acute musculoskeletal manifestations of this group of viruses. [4]
- c) Immune mechanisms underlying chronic systemic and articular manifestations of arthritogenic alpha virus in humans. [5]

Question Number : 9 Question Id : 32718712070 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 severe abdominal pain and yellowish discoloration of eyes. The

CT abdomen showed bulky sausage shaped pancreas and biliary dilatation. Blood investigations revealed hyper-gammaglobulinemia and elevated IgG4 levels. Histology of liver was suggestive of exuberant plasma cell infiltration and storiform fibrosis.

- a) Enlist the medical conditions associated with elevated IgG4 levels. [1]
- b) Elaborate on 2019 ACR/EULAR inclusion and exclusion criteria of IgG4 related disease. [5]
- c) Write in brief on the two major type of T cells implicated in pathogenesis of IgG4 related disease. [4]

Question Number : 10 Question Id : 32718712071 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 extra-criteria manifestation of antiphospholipid antibody syndrome (APS). [3]
- b) Discuss the new classification criteria for primary APS. [5]
- c) Write briefly on GAPSS score and its utility in prognosis of patients with APS. [2]