

National Board of Examinations

Question Paper Name :	DrNB Clinical Immunology and Rheumatology Paper1
Subject Name :	DrNB Clinical Immunology and Rheumatology Paper1
Creation Date :	2023-04-25 11:44:50
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Clinical Immunology and Rheumatology Paper1

Group Number :	1
Group Id :	327187732
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 Paper1

Section Id :	327187735
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 :	327187739
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718720792 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. Discuss B cell development. What is the mechanism of action of Rituximab (anti CD20 antibody)?
What is the cause of relapse following B cell depletion therapy? [5+3+2]

Question Number : 2 Question Id : 32718720793 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What is the difference in the anatomy of small, medium and large sized blood vessels? Draw a line diagram of these three different blood vessels. Write classification of vasculitis. [4+2+4]

Question Number : 3 Question Id : 32718720794 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the mechanism of action of JAK inhibitors (JAKi) in autoimmune rheumatological disorders. What are the various available JAKi? Comment on their specificity. Discuss the role of JAK inhibitors in spondyloarthritis. [4+1.5+1.5+3]

Question Number : 4 Question Id : 32718720795 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Write mechanism of action of mycophenolate mofetil and its role in immunosuppression? Discuss the efficacy and usage in various rheumatological diseases. [4+6]

Question Number : 5 Question Id : 32718720796 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

Discuss the role of IL-23/IL-17 axis in psoriasis and psoriatic arthritis. [6+4]

Question Number : 6 Question Id : 32718720797 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10

What are the various methods to know the genetic contribution to the development of a rheumatic disease? What are genome wide association (GWAS) studies? [7+3]

Question Number : 7 Question Id : 32718720798 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

What is bone homeostasis? How is normal bone homeostasis regulated? Write mechanism of age related osteoporosis? [1+4+5]

Question Number : 8 Question Id : 32718720799 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

Are autoantibodies an epiphenomenon or they have a pathogenic role? Discuss with examples of each in different rheumatic diseases. [2+8]

Question Number : 9 Question Id : 32718720800 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

What are type I and 2 error in statistics? Give examples of each. When you are evaluating a new drug which error would you like to minimize and why? [5+2+3]

Question Number : 10 Question Id : 32718720801 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 10

How is tolerance to self antigens induced in Thymus? List postulated factors that help in loss of self tolerance in autoimmune diseases. [6+4]