

National Board of Examinations

Question Paper Name :	DrNB CLINICAL HAEMATOLOGY Paper1
Subject Name :	DrNB CLINICAL HAEMATOLOGY Paper1
Creation Date :	2022-06-25 17:18:15
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB CLINICAL HAEMATOLOGY Paper1

Group Number :	1
Group Id :	3271871262
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

DrNB CLINICAL HAEMATOLOGY Paper1

Section Id :	3271871265
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 :	3271871269
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718711672 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

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. Clinical evaluation of patient with acquired idiopathic aplastic anemia:
 - a) Describe the role of history and physical examination in the diagnosis of idiopathic aplastic anemia. [4]
 - b) Describe the role of various investigations including cytogenetics and next generation sequencing. [3]
 - c) Does clonal evolution develop in idiopathic aplastic anemia? Describe its significance. [3]

Question Number : 2 Question Id : 32718711673 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Bone marrow niche:

- a) Cells constituting the bone marrow niche. [5]
- b) Brief outline of haematopoiesis in the bone marrow niche. [5]

Question Number : 3 Question Id : 32718711674 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Regarding autoimmune haemolytic anemia:

- a) History and clinical evaluation of a 55-year old female presenting with autoimmune hemolytic anemia[4]
- b) How do you make a diagnosis of cold agglutinin disease? [3]
- c) Treatment strategies for the patient refractory to Rituximab [3]

Question Number : 4 Question Id : 32718711675 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Platelet transfusions:

- a) Describe the indications of platelet transfusion in hemat-oncology patients and grade them on evidence based. [4]
- b) Describe various type of platelet products and their advantages and disadvantages. [3]
- c) Describe platelet refractoriness and its causes. [3]

Question Number : 5 Question Id : 32718711676 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Clinical Research Trials:

- a) What are randomised clinical trials? [4]
- b) What is real world evidence and its relevance? [3]
- c) What is a phase I clinical trial? [3]

Question Number : 6 Question Id : 32718711677 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Haploidentical HSCT:

- a) How do you choose donor for a haploidentical HSCT? [4]
- b) Describe various approaches for a T cell replete Haploidentical HSCT. [3]
- c) Describe post transplant challenges in haploidentical HSCT vs full matched allogeneic HSCT. [3]

Question Number : 7 Question Id : 32718711678 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A 55 year old post menopausal female presents with left lower limb deep vein thrombosis:

- a) What are the important things that you would like to evaluate in the history and physical examination of the patient? [5]
- b) What investigations will you do for this patient and their justification? [5]

Question Number : 8 Question Id : 32718711679 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

An 08 year old thalassemic child is referred for HSCT. The donor is a matched sibling donor:

- a) What is the pre-transplant work up that you would like to do? [4]
- b) What are the conditioning regimens that can be used? [3]
- c) What should be the follow up investigations in the post transplant period? [3]

Question Number : 9 Question Id : 32718711680 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Myeloma bone disease:

- a) Describe the pathogenesis of bone disease in multiple myeloma. [5]
- b) Describe therapeutic modalities to treat bone disease in multiple myeloma and precautions while using them [5]

Question Number : 10 Question Id : 32718711681 Question Type : SUBJECTIVE Consider As

Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Sickle cell disease:

- a) Describe presentation of sickle cell disease in India and other countries and whether it behaves differently in different continents [5]
- b) Advances in sickle cell disease treatment. [5]