

National Board of Examinations

Question Paper Name :	DrNB CLINICAL HAEMATOLOGY Paper2
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DrNB CLINICAL HAEMATOLOGY Paper2

Group Number :	1
Group Id :	3271871891
Group Maximum Duration :	0
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Show Attended Group? :	No
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DrNB CLINICAL HAEMATOLOGY Paper2

Section Id :	3271871894
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 : 3271871898

Question Shuffling Allowed : No

Is Section Default? : null

Question Number : 1 Question Id : 32718718522 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. Red blood cell transfusion:

- Discuss the pretransfusion compatibility testing strategies for red cell transfusion. [4]
- What are the recommendations for pretransfusion compatibility testing for emergency blood release when no time is available for detailed testing. [3]
- Describe the potential confounders of the results for the pretransfusion compatibility testing. [3]

Question Number : 2 Question Id : 32718718523 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 33-year-old male (Blood Group: A-positive) is planned for matched sibling donor transplant with a 38-year-old multiparous sister (Blood Group: B-positive) for AML in CR1. Please discuss the following about this patient:

- a) Component transfusion strategies pre- and post-engraftment in this patient. [4]
- b) Explain the requirement of graft manipulation (if any) with a scientific basis. [3]
- c) Incidence of Post-transplant PRCA in this patient and its management (if it develops). [3]

Question Number : 3 Question Id : 32718718524 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 21-year-old lady developed pancytopenia, and during evaluation, her bone marrow examination was suggestive of Hemophagocytic Lymphohistiocytosis (HLH):

- a) Overview of initial management and monitoring. [4]
- b) During the initial evaluation of HLH, how important is genetics in this patient. [3]
- c) How to treat relapse or refractory disease? [3]

Question Number : 4 Question Id : 32718718525 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 62-year-old male complained of bone pains, easy fatigability, and hip fracture after trivial trauma:

- a) What are the hematological and non-hematological causes of this symptom complex? [5]
- b) Describe the algorithmic approach for this patient. [5]

Question Number : 5 Question Id : 32718718526 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 66-year-old male, during a pre-operative check-up for cataract surgery, was found to have lymphocytosis (88%). Peripheral blood smear revealed smudge cells and mature-looking

lymphocytes:

- a) Kindly suggest evaluation for risk stratification in this case and appropriate prognosis about disease progression and survival outcomes based on risk stratification. [4]
- b) Enumerate the targeted therapies available in our country for this disorder. [3]
- c) Enumerate the toxicities of the targeted therapies and discuss the management of these toxicities in this patient. [3]

Question Number : 6 Question Id : 32718718527 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 52-year-old post-menopausal female was found to have generalized lymphadenopathy with hepatosplenomegaly. There was a suspicion of Mantle cell lymphoma (MCL) as reported from a peripheral center. Discuss the following:

- a) Diagnostic challenges in MCL. [4]
- b) Frontline management of MCL with special attention to the Indian perspective. [3]
- c) Role of novel agents in the management of MCL. [3]

Question Number : 7 Question Id : 32718718528 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 55-year-old female presented to the medical OPD with anasarca. The evaluation revealed hypoalbuminemia with gross proteinuria (6g/day). A kidney biopsy revealed amorphous material with apple-green birefringence:

- a) What can be the other clinical manifestations of the disease with which the patient is suffering? [3]
- b) What further evaluation would you advise for this patient? [4]
- c) Role of transplantation in this patient and what special precautions would you take in this patient? [3]

Question Number : 8 Question Id : 32718718529 Question Type : SUBJECTIVE Consider As

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

Correct Marks : 10

Neutrophils are the primary defense of the body, and abnormalities in the neutrophil function (Neutrophil dysfunction disorders) can make an individual prone to infections:

- a) Enumerate the causes/types of Neutrophil dysfunction disorders. [4]
- b) How do these patients present, and what are the indications for evaluation. [4]
- c) Brief note on the Neutrophil function testing. [2]

Question Number : 9 Question Id : 32718718530 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 58-year-old male presented with a high-stepping gait and lower limb weakness. During the evaluation, he was found to have monoclonal gammopathy but did not fulfill the criteria for Multiple myeloma:

- a) Describe the various neurological manifestations of monoclonal gammopathies. [5]
- b) Classify and mention the diagnostic criteria for monoclonal gammopathies which do not meet the IMWG Criteria for Overt Multiple Myeloma. [5]

Question Number : 10 Question Id : 32718718531 Question Type : SUBJECTIVE Consider As

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

Correct Marks : 10

Describe the following regarding platelet transfusion:

- a) Indications. [2]
- b) Donor issues. [2]
- c) Processing/storage. [2]
- d) Determining response. [2]
- e) Complications. [2]