

National Board of Examinations

Question Paper Name : DrNB CLINICAL HAEMATOLOGY Paper1
Subject Name : DrNB CLINICAL HAEMATOLOGY Paper1
Duration : 180
Total Marks : 100
Display Marks: No

Maximum Instruction Time : 0

Question Number : 1 Question Id : 32718741245 Consider As Subjective : Yes

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 |
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| 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 |
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1. a) When conducting clinical trials - discuss vulnerable population. [3]
- b) Why are these populations considered vulnerable? [4]
- c) What can we do to ensure principles of ethics are followed in the informed consent process for these vulnerable populations? [3]

Question Number : 2 Question Id : 32718741246 Consider As Subjective : Yes

- a) What are the prognostic factors that influence outcomes in relapsed mantle cell lymphomas? [3]
- b) Discuss MIPI score. [3]
- c) What are the options for treatment of relapsed mantle cell lymphoma? [4]

Question Number : 3 Question Id : 32718741247 Consider As Subjective : Yes

A 46-year-old male presents with 2 weeks history of high grade fever and hepatosplenomegaly. His blood work shows pancytopenia with ferritin of 5000 ng/ml, triglycerides of 366 mg/dl and fibrinogen of 96 mg/dl. An urgent bone marrow aspiration and biopsy is ordered which shows hemophagocytosis.

- a) Discuss the classification of HLH. [3]
- b) Discuss H score and its role in diagnosis of HLH. [3]
- c) Discuss the management of the above patient. [4]

Question Number : 4 Question Id : 32718741248 Consider As Subjective : Yes

- a) A young, pregnant woman with pica and hair fall presents in the first trimester. What tests are needed to ascertain diagnosis in a community setting? [3]
- b) What changes occur in the CBC due to pregnancy? [4]
- c) What are the guidelines for management according to Anemia Mukd Bharat programme? [3]

Question Number : 5 Question Id : 32718741249 Consider As Subjective : Yes

- a) Discuss the lymph node architecture. [3]
- b) Discuss the role lymph node biopsy IHC in various non Hodgkin's lymphomas. [4]
- c) Discuss cell of origin classification in DLBCL. [3]

Question Number : 6 Question Id : 32718741250 Consider As Subjective : Yes

- a) A young male developed an unprovoked DVT and later suffered an arterial thrombus. He has mild anemia. Discuss work up of this case. [3]
- b) If he also has hemoglobinuria and increased serum LDH, what other complications may occur? [3]
- c) What are the current available therapy options? [4]

Question Number : 7 Question Id : 32718741251 Consider As Subjective : Yes

Patient related outcomes are being discussed in clinical trials.

- a) What are some patient related outcomes that you have read about? [3]
- b) List some tools that can collect patient related outcomes ? [3]
- c) How can these tools improve quality of care? [4]

Question Number : 8 Question Id : 32718741252 Consider As Subjective : Yes

A 75-year-old, gentleman who is otherwise fit, develops some joint pain and presents with massive spontaneous ecchymoses and prolonged bleeding after minor dental work. He is only on his routine blood pressure and diabetes medicines which have been unchanged in 5 years.

- a) What tests will you order? [3]
- b) What are the therapy options if he has frequent recurrent bleeding? [3]
- c) How can you best manage his condition? [4]

Question Number : 9 Question Id : 32718741253 Consider As Subjective : Yes

An obese lady who had suffered post-partum DVT several years before and had been irregular with meds, now presents with blackish discoloration of skin and venous ulcers.

- a) What evaluation is required? [3]
- b) Discuss Villata scale. [4]
- c) What are the evidence based treatment strategies? [3]

Question Number : 10 Question Id : 32718741254 Consider As Subjective : Yes

An 8-year-old child presents with pancytopenia and no organomegaly.

- a) What work up will you recommend? [4]
- b) What is the role of NGS in pediatric patients? [3]
- c) If NGS is negative and parents refuse transplant, what immunotherapy regimen is evidence based for this child as of 2025? [3]