

National Board of Examinations

Question Paper Name :	DrNB Medical Oncology Paper1
Subject Name :	DrNB Medical Oncology Paper1
Creation Date :	2022-06-25 17:18:42
Duration :	180
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	No

DrNB Medical Oncology Paper1

Group Number :	1
Group Id :	3271871113
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 Medical Oncology Paper1

Section Id :	3271871116
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 :	3271871120
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 32718710182 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

- What is chemotherapy dose intensity and dose density? [2]
- Discuss the principles behind dose density and intensity and the use of combination chemotherapy. [4]
- Give examples of clinical applications of the same with pros and cons. [4]

Question Number : 2 Question Id : 32718710183 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

- Mechanism of action of high dose methotrexate therapy. [4]
- Management of a patient with high levels of serum methotrexate after administering high dose

methotrexate. [4]

c) Differences between high dose methotrexate therapy in Osteosarcoma and leukemias. [2]

Question Number : 3 Question Id : 32718710184 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) What is tumour heterogeneity and discuss its clinical implications. [5]

b) Discuss the pros and cons of tissue Biopsy and liquid Biopsy. [5]

Question Number : 4 Question Id : 32718710185 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) End points of cancer clinical trials. [4]

b) Progression free survival as a surrogate marker for overall survival in clinical trials. [4]

c) Hierarchical study design in clinical trials. [2]

Question Number : 5 Question Id : 32718710186 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) What is the biological basis of fractionation of radiotherapy? [2]

b) Discuss the various types of altered fractionation. [4]

c) What is accelerated partial breast radiation? [4]

Question Number : 6 Question Id : 32718710187 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Angiogenesis in cancer. [4]

b) Mechanism of action of various anti-angiogenic agents. [4]

c) Discuss the main side-effects of these agents. [2]

Question Number : 7 Question Id : 32718710188 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Discuss the interaction between immune system and cancer. [4]

b) Critically discuss the role of PDL1, MSI and TMB in selecting immuno therapy for the treatment of cancer. [4]

c) What is pseudo progression in relation to immunotherapy? [2]

Question Number : 8 Question Id : 32718710189 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Discuss the role of tobacco as a carcinogen. [4]

b) Discuss the role of screening for oral cavity cancer. [4]

c) Discuss the salient measures taken in our country to curb tobacco use. [2]

Question Number : 9 Question Id : 32718710190 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Discuss various DNA repair mechanisms. [4]

b) Explain synthetic lethality with an example. [4]

c) Side-effects of PARP inhibitors. [2]

Question Number : 10 Question Id : 32718710191 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

a) Enumerate the various cancer prevention strategies. [4]

b) Discuss the role of various risk reduction surgeries in cancer. [4]

c) Role of chemo prevention in cancer. [2]