

National Board of Examinations

Question Paper Name :	DrNB Medical Oncology Paper1
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DrNB Medical Oncology Paper1

Group Number :	1
Group Id :	3271871322
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 Medical Oncology Paper1

Section Id :	3271871325
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 :	3271871329
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 32718712272 Question Type : SUBJECTIVE Consider As Subjective : Yes Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 10



1. a) Discuss the pathophysiology of nicotine addiction. [4]
- b) Define the terms, never smoker, former smoker, recent smoker, and current smoker. [2]
- c) Discuss the pros and cons of E cigarettes. [4]

Question Number : 2 Question Id : 32718712273 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) What is Bragg peak effect with reference to electrons, photons, protons in radiation biology. Explain with the help of a diagram. [5]
- b) Discuss the differences between gamma knife and cyber knife or SBRT. [5]

Question Number : 3 Question Id : 32718712274 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) Discuss the mechanism of action, dosages, precautions during administration and adverse effects of Melphalan when used as induction therapy in stem cell transplant. [6]
- b) Discuss briefly on prevention and management of ifosfamide induced Neurotoxicity and haemorrhagic cystitis. [4]

Question Number : 4 Question Id : 32718712275 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) Discuss the difference in mechanism of action of leucovorin when given with high-dose methotrexate and with 5 FU with appropriate diagram. [5]
- b) Explain mechanism of action of antibody drug conjugates with a neat diagram and name two conjugates with topoisomerase inhibitor as payload. [5]

Question Number : 5 Question Id : 32718712276 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) Define irritants and vesicant chemotherapeutic drugs and name a few of each. [5]
- b) Discuss in an algorithmic manner the appropriate management of extravasation injury due to vesicant drugs. [5]

Question Number : 6 Question Id : 32718712277 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) Discuss the RAS – RAF pathway with appropriate diagram. [5]
- b) Discuss the various classes of BRAF mutations. [3]
- c) Name some BRAF inhibitors and their indications. [2]

Question Number : 7 Question Id : 32718712278 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) Discuss Homologous Recombination Repair (HRR) and Homologous Recombination Deficiency (HRD) testing with the relevant advantages and disadvantages. [6]
- b) Discuss the role of PARP inhibitors in management of metastatic prostate cancer. [4]

Question Number : 8 Question Id : 32718712279 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) Discuss the pathobiology of acute promyelocytic leukaemia with appropriate diagram. [5]
- b) Discuss the mechanism of action of ATRA and arsenic trioxide in management of APML. [5]

Question Number : 9 Question Id : 32718712280 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) Name the important EGFR mutations found in Lung Cancer. [2]
- b) Discuss the differences between generations of EGFR inhibitors in terms of efficacy and survival in metastatic EGFR positive lung cancer. [5]
- c) Discuss the side-effect profile of commonly used EGFR inhibitors in lung cancer. [3]

Question Number : 10 Question Id : 32718712281 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) Discuss the principles behind calculation of sample size in clinical trials. [5]
- b) Discuss differences between meta-analysis and systematic review. Briefly discuss main finding of MACH-NC analysis published recently (last 2-3 years). [5]