

Name.....

Answer the following questions

Question No. I (Choose the most accurate answer) (30 Marks)

1- The antineoplastic agent that is classified as an alkylating agent is

- a) Thiogaunine.
- b) Methotrexate
- c) Melphalan
- d) Vincristine

2- Zidovudine likely used as anti HIV but results in main side effect?

- a) Nausea.
- b) Lactic acidosis
- c) Rash.
- d) Stomatitis.

3- Viral neuraminidase can be selectively inhibited by

- a) Acyclovir
- b) zanamivir.
- c) Ribavirine
- d) Interferone
- e) All of the above.

4- Acyclovir (Zovirax) is indicated for the treatment of

- a) multiple sclerosis
- b) psoriasis
- c) HIV infection
- d) Herpatic mouth lesion

5- Toxicity from methotrexate can be treated with

- a) cyclophosphamide (Cytosan)
- b) leucovorin
- c) dialysis
- d) vincristine (Oncovin)

Therapeutic II
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6- A patient with AIDS is treated with a combination of agents, which includes Zidovudine. What is the mechanism of action of Zidovudine?

- a) Inhibition of RNA synthesis
- b) Inhibition of viral particle assembly
- c) Inhibition of viral proteases
- d) Inhibition of nucleoside reverse transcriptase

7- Amantadine, an antiviral agent used prophylactically against influenza A2, is thought to act by:

- a) Prevention production of viral capsid protein
- b) Prevention virion release
- c) Prevention penetration of virus into the host cell
- d) Preventing uncoating of the viral DNA

8- Which of the following would the nurse report immediately in a 3-month-old patient receiving ribavirin?

- a) any worsening of the respiratory status
- b) refusal to take foods or fluids
- c) drowsiness
- d) constipation

9- A 43-year-old man is diagnosed with HBV, and therapy is initiated. After the first two weeks of therapy, the patient complains of headaches, insomnia, myelosuppression, thyroiditis. Which of the following antihepatic drugs is most likely to be causing these symptoms?

- a) Enfuvuridine.
- b) Indinavir.
- c) Lamivudine.
- d) Peginterferone

10- Which of the following anticancer agents is classified as (an) antimetabolite?

- a) Mechlorethamine
- b) Cyclophosphamide
- c) Flurouracil
- d) Asparaginase
- e) All of the above

11- Cardiotoxicity limits the clinical usefulness of which of one of the following antitumor agents?

- a) Dactinomycin
- b) Doxorubicin
- c) Bleomycin
- d) Plicamycin

12- Binding to the enzyme dihydrofolate reductase is the mechanism of action for

- a) Procarbazine
- b) Vincristine
- c) Methotrexate
- d) Bleomycin

13- A 42-year-old cancer patient, who has smoked two packs of cigarettes a day for 10 years, presents a decreased pulmonary function test. Physical examination and chest X-rays suggest preexisting pulmonary disease., which is best not prescribed?

- a) Vinblastine
- b) Doxorubicin
- c) Bleomycin
- d) Cisplatin
- e) Cyclophosphamide

14- Allopurinol is potentially dangerous if used in combination with:

- a) mercaptopurine
- b) methotrexate
- c) cyclophosphamide
- d) L-asparaginase

15- Chemotherapy

- a) is most effective against smaller tumors with slowly proliferating cells
- b) is most effective against larger tumors with rapidly proliferating cells
- c) is most effective against smaller tumors with rapidly proliferating cells
- d) is least effective against smaller tumors with rapidly proliferating cells

16- Hemorrhagic cystitis is associated with:

- a) dacarbazine
- b) methotrexate
- c) cisplatin
- d) cyclophosphamide

17- Cyclophosphamide, busulfan, and carmustine all have in common the classification of:

- a) antimetabolite
- b) antibiotic
- c) alkylating agent
- d) natural product

18- Ondansetron (Zofran) is

- a) used to treat extravasation
- b) antiulcer therapies
- c) used to treat chemotherapy-induced nausea
- d) used to treat metoclopramide toxicity

19- The chemotherapeutic agent with the most pronounced emetic potential is

- a) low dose methotrexate (Mexate)
- b) cisplatin (Platinol)
- c) cyclophosphamide (Cytosan)
- d) 5-fluorouracil (5-FU)

20- The indication for interferon alpha administration is:

- a) Hepatitis C virus infection
- b) Kaposi's sarcoma
- c) Condyloma acuminatum
- d) All of the above

21- Which one of the following anticancer drugs acts in the M-phase of the cell cycle to prevent disassembly of the mitotic spindle?

- a) Dactinomycin
- b) Etoposide
- c) Paclitaxel
- d) Procarbazine
- e) Vinblastine

22. How do antimetabolites exert their cytotoxic effect?

- a) Inhibiting DNA synthesis by sliding between DNA base pairs
- b) Inhibiting RNA synthesis by sliding between RNA base pairs
- c) Acting as false metabolites in the microtubules
- d) Acting as false substitutions in the production of nucleic acids

23- Vinca alkaloids exert antitumor activity by

- a) Activating topoisomerase II to cause breaks in DNA strands
- b) Crosslinking DNA strands
- c) Inhibiting DNA mediated RNA synthesis
- d) Inhibiting polymerization of tubulin to form intracellular microtubules

24. Melphalan is the drug of choice in
- Leukemia
 - Multiple myeloma
 - Hodgkin's disease
 - Osteosarcoma
25. Amantadine is replaced by Rimantadine due its
- Potential myelosuppression
 - More carditoxicity
 - Potential higher C.N.S toxicity
 - Higher price
26. Efaviridine is anti retroviral drug but preferably substituted by Maraviroc due its
- Ototoxicity
 - Higher pain and low half life
 - Nephrotocity
 - C.N.S toxicity
27. Flutamide is an anti-androgen. Possible therapeutic uses of anti-androgens include:
- male contraception
 - hirsutism and virilization in women
 - acne and baldness in both sexes
 - prostatic cancer
 - All of the above
28. All of the following are viral infections EXCEPT
- influenza
 - Chickenpox
 - Polymyeliteis
 - Typhiod fever
 - Hepatitis
29. Cardio toxicity of anthracycline antibiotic of anticancer drugs can be minimized by
- Folinic acid
 - Ondasetron
 - Dexamethazone
 - Decamethazone

30- Regarding L- asparaginase , which of the following statements is incorrect

- a) L-Asparaginase catalyzes the deamination of asparagine to aspartic acid and ammonia.
- b) L-Asparaginase hydrolyzes blood asparagine and, thus, deprives the tumor cells of this.
- c) The enzyme must be administered either IV or IM, because it is destroyed by gastric en:
- d) Resistance to the drug is due out flux of drug.

31- A 25-year-old man is diagnosed with HIV, and therapy is initiated. After the first wee therapy, the patient complains of headaches, irritability, and nightmares. Which one of th antiretroviral drugs is most likely to be causing these symptoms?

- a) Nevirapine
- b) Lamivudine.
- c) Maraviroc
- d) Stavudine.

Question No. III

30 Mark

Write mode of action and ,clinical usess of the following drugs.

Drug	Mode of action	Clinical uses
1. Oxaliplatin		
2. Cyclophosphamide		
3. Rimantadine		
4. Busulphan		
5. Streptozocin		
6. Dacarbazine		
7. Ribavirin		
8. α -interferon		
9. Bevacizumab		

10- Tamoxifen		
11- Etoposide		
12- 5- Fluorouracil		
13- Raletagravir		
14- Foscarnet		
15- Carmastine		
16-L-asparaginase		

Good Luck

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