



**AMREF INTERNATIONAL UNIVERSITY  
SCHOOL OF MEDICAL SCIENCES  
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES  
END OF SEMESTER AUGUST 2024 EXAMINATIONS**

**COURSE CODE AND TITLE: DOP 116-CANCER TREATMENT MODALITIES**

**DATE: Tuesday 6<sup>th</sup> August 2024**

**Duration: 2 HOURS**

**Start: 9:00 AM**

**Finish: 11:00 AM**

**INSTRUCTIONS**

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks)  
Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

1. Which of the following is the most common adverse reaction of capecitabine?
  - A. Neurotoxicity
  - B. Nephrotoxicity
  - C. Nausea and vomiting
  - D. Myelosuppression
2. Which of the following group of drugs is **NOT** indicated in management of Chemotherapy induced Nausea and vomiting?
  - A. Corticosteroids
  - B. Serotonin antagonist
  - C. Serotonin protagonist
  - D. Dopamine antagonists
3. Which of the following is true about chemotherapy induced mucocitis?
  - A. Begins 10-15 days after initial treatment
  - B. May last for 15-20 days after treatment
  - C. Analgesics are not indicated in mucocitis
  - D. Begins 7-14 days after initial treatment
4. Letrozole:
  - A. Interferes with the action of oestrogen
  - B. Decreases concentration of oestrogen receptors
  - C. Causes change in shape of oestrogen receptors
  - D. Prevents formation of oestrogen
5. Chemotherapy destroys highly dividing cells by killing them with high energy beams
  - A. True
  - B. False
6. Radiation is used to:
  - A. Kill cells directly via induction of DNA damage and cell death
  - B. Prevent cancer growth by destroying nearby vessels
  - C. Force normal cells to kill nearby cells
  - D. All of the above
7. Fulvestrant is a:
  - A. Chemotherapy
  - B. Targeted therapy
  - C. Hormonal therapy
  - D. Radiotherapy

8. Which one of the following is not one of the side effect of Filgastrim
- A. Spleen rupture
  - B. Acute respiratory distress syndrome
  - C. Capillary leak syndrome
  - D. Mucocitis
9. Which of the following conditions is a contraindication for chemotherapy?
- A. Pregnancy
  - B. Bone marrow depression
  - C. Recent surgery
  - D. All of the above
10. Which of the following measures should the nurse include in the plan of care of a client receiving brachytherapy?
- A. Plan to spend extra time with the client to provide emotional support
  - B. Ensure that chemotherapy does not extravasate into patient tissues
  - C. Keep the door to the clients' room closed
  - D. Encourage family members to visit for at least one hour per day.
11. What is target therapy?
- A. Kill all cell
  - B. Attack and kill cancer cells
  - C. Kill red blood cells
  - D. None of the above
12. Which of the following is **NOT** the role of surgery in cancer care?
- A. Palliative
  - B. Curative
  - C. Diagnostic surgery
  - D. None of the above
13. Which of the following treatment modalities would be appropriate for the emergency management of a patient with stage four spinal cord compression ?
- A. Chemotherapy
  - B. Hormonal therapy
  - C. Radiotherapy
  - D. Targeted therapy

14. All the following determine the amount of radiation to be given to a patient **EXCEPT** ?
- A. Tumour radio sensitivity
  - B. Normal tissue tolerance
  - C. Volume of tissue to be radiated
  - D. The role radiation in the treatment plan
15. Which of the following chemotherapeutic agent is prepared and administered in 5% dextrose rather than normal saline?
- A. Oxaliplatin
  - B. Carpecitabin
  - C. Vincristine
  - D. Vinblastine
16. What is the role of Mesna in chemotherapy administration?
- A. Prevent nausea and vomiting
  - B. Prevent haemorrhagic cystitis
  - C. Increase the bioavailability of cyclophosphamide
  - D. Prevent neurotoxicity
17. Which of the following situations warrants avoidance of ADT?
- A. With radiation therapy for low risk disease
  - B. Monotherapy for localized disease
  - C. Neoadjuvant therapy before prostatectomy
  - D. All of the above
18. Gynaecomastia is a side effect associated with:
- A. ADT use
  - B. Chemotherapy
  - C. Targeted therapy
  - D. Cell cycle inhibitors
19. The removal of the breast tissue including nipple, areola and axillary lymph nodes, leaving the chest wall muscles intact is?.
- A. Modified radical mastectomy
  - B. Nipple sparing mastectomy
  - C. Skin sparing mastectomy
  - D. Simple total mastectomy

20. Which of the following is a symptom of osteoradionecrosis?

- A. Limited range of motion of the jaw
- B. Xerostomia
- C. Facial and jaw swelling
- D. Pain at rest

**SECTION II: SHORT ANSWER QUESTIONS**

**(30 MARKS)**

1. With use of example, briefly describe the classification of chemotherapeutic agents based on phase of the cell cycle that they act on. (8mks).
2. What are the advantages of Albumin bound paclitaxel over the conventional paclitaxel in cancer management? (2mks)
3. State four (4) therapeutic limitations of taxanes (8mks)
4. Briefly outline common complications associated with Radiotherapy (6mks)
5. Outline six (6) important checklist information to consider before initiating Androgen deprivation therapy. (6mks).

**SECTION III: LONG ANSWER QUESTIONS**

**(20 MARKS)**

1. Mrs. Gabriela, a known breast cancer patient who has undergone both Radiotherapy and chemotherapy is admitted in your facility.
  - a) Discuss the ten (10) nursing management Mrs. Gabriela while undergoing chemotherapy(10 mks)
  - b) Discuss the specific Nursing care of Mrs. Gabriela while on radiotherapy (10mks)