



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
END OF SEMESTER AUGUST 2023 EXAMINATIONS**

**COURSE CODE AND TITLE: DOP 116 CANCER TREATMENT MODALITIES
DATE: 10TH AUGUST 2023**

Duration: 2 HOURS

Start: 11:00 AM

Finish: 1:00 PM

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.

SECTION I: MULTIPLE CHOICE QUESTIONS**(20 MARKS)**

1. The medications given to a client with leukaemia as prophylaxis against *P. carinii* pneumonia: -
 - A. Vincristine
 - B. Prednisone
 - C. Oral nystatin suspension
 - D. Sulfamethoxazole and trimethoprim (Bactrim)
2. Bone marrow transplantation is not indicated in: -
 - A. Severe aplastic anaemia
 - B. Severe combined immunodeficiency
 - C. Acute lymphocytic leukaemia
 - D. Chronic myeloid leukaemia
3. In nausea and vomiting caused by radiation and chemotherapy antiemetics should be administered: -
 - A. When therapy is completed
 - B. Immediately after nausea begins
 - C. With the administration of therapy
 - D. 30 minutes before the initiation of therapy
4. Following a modified radical mastectomy, an assessment finding that would indicate surgery related complications is: -
 - A. Pain at the incisional site
 - B. Labile mood
 - C. Arm oedema on the operative side
 - D. Sanguineous drainage in the Jackson-Pratt drain
5. An early indication of infection after administration of high-dose chemotherapy in a patient with neutropenia is: -
 - A. Dyspnoea
 - B. Fever
 - C. Tachycardia
 - D. Chills
6. The best advice to give to a patient asking on how chemotherapeutic drugs will work is: -
 - A. "Cancer cells are susceptible to drug toxins."
 - B. "Chemotherapy affects all rapidly dividing cells."
 - C. "Chemotherapy encourages cancer cells to divide."
 - D. "The molecular structure of the DNA is altered."

7. A pneumonectomy involves removal of: -
- A. One lobe of a lung
 - B. An entire lung field
 - C. One or more segments of a lung lobe
 - D. A small, wedge-shaped lung surface
8. Clients scheduled for radiation therapy should be prepared to expect: -
- A. Fatigue
 - B. Vomiting
 - C. Hair loss
 - D. Stomatitis
9. One of the following adverse effects should be reported in Tamoxifen use: -
- A. Anorexia
 - B. Headache
 - C. Hearing loss
 - D. Vision changes
10. A male client receiving external radiation to the neck for cancer of the larynx, will most likely experience one of the following Side effects: -
- A. Diarrhoea
 - B. Dyspnoea
 - C. Constipation
 - D. Sore throat
11. In treatment of leukaemia Zylorin (allopurinol) is to prevent: -
- A. Mouth sores
 - B. Hyperuricemia
 - C. Nausea
 - D. Alopecia
12. The removal of entire breast, pectoralis major and minor muscles and neck lymph nodes followed by skin grafting is a procedure called: -
- A. Radiation therapy
 - B. Halstead surgery
 - C. Modified radical mastectomy
 - D. Simple mastectomy

13. Chemotherapy treatment is contraindicated in: -
- A. Bone marrow depression
 - B. Recent surgery
 - C. Pregnancy
 - D. All of the above
14. Cyclophosphamide (Cytosan) most fatal side effect is: -
- A. Sterility
 - B. Haemorrhagic cystitis
 - C. Myeloma
 - D. Alopecia
15. All the following medications are antineoplastic antibiotics except: -
- A. Doxorubicin
 - B. Fluorouracil
 - C. Mitoxantrone
 - D. Bleomycin
16. The classification of the chemotherapeutic agent, Vincristine (Oncovin) is: -
- A. Hormone modulator
 - B. Mitotic inhibitor
 - C. Antineoplastic antibiotic
 - D. Antimetabolite
17. During administration of a vesicant chemotherapeutic agent intravenously, an important consideration is: -
- A. Stop the infusion if swelling is observed at the site
 - B. Infuse the medication over a short period
 - C. Administer the chemotherapy through a small-bore catheter
 - D. Hold the medication unless a central venous line is available
18. The drug corresponding to letter 'O' in the R-CHOP regimen used for chemotherapy of lymphocytic leukaemia is: -
- A. Omalizumab
 - B. Ondansetron
 - C. Vincristine
 - D. Prednisone

19. The resistance to a majority of the anticancer agents is mainly due to: -

- A. Increased metabolism
- B. Alteration of enzymatic activity
- C. Drug efflux from target tissues
- D. Receptor down regulation

20. One of the following is a myeloid growth factor: -

- A. Filgrastim
- B. Interleukin-11
- C. Eltrombopag
- D. Cyclosporine

SECTION II: SHORT ANSWER QUESTIONS

(30 MARKS)

1. State five (5) types of radiation therapies. (5marks)
2. List five (5) antimetabolites used in cancer treatment. (5marks)
3. Outline five (5) the roles of oncology nurse. (5marks)
4. State Complimentary Therapy and alternative medicine in Oncology. (5marks)
5. Highlight five (5) roles of surgery in cancer treatment. (5marks)
6. Explain five (5) the standard safety measures in oncology unit. (5marks)

SECTION III: LONG ANSWER QUESTION –

(20 MARKS)

1. Discuss various treatment approaches used in management of patient diagnosed with cancer of the cervix. (20 marks)