



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES
HIGHER DIPLOMA IN ONCOLOGY NURSING
END OF SEPTEMBER – DECEMBER SEMESTER 2022 EXAMINATIONS**

DOP 112 :FUNDAMENTALS OF ONCOLOGY AND PALLIATIVE CARE

DATE: 28TH NOVEMBER, 2022

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 A: Multiple Choice Questions (20 marks)
Section B: Short Answer Questions (30 marks) and Section C: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Late submission of the answers will not be accepted
5. Ensure your web-camera is on at all times during the examination period
6. No movement is allowed during the examination
7. Idling of your machine for 5 min or more will lead to lock out from the exam
8. The Learning Management System (LMS) has inbuilt integrity checks to detect cheating
9. Any aspect of cheating detected during and or after the exam administration will lead to nullification of your exam
10. In case you have any questions call the Head of Department on Tel +254720573449
11. For adverse incidences please write an email to: amiu.examinations@amref.ac.ke

SECTION A: MULTIPLE CHOICE QUESTIONS

(20 MARKS)

1. The following tumour suppressor gene is vital at the G1/S checkpoint: -
 - a. P16
 - b. P53
 - c. RB
 - d. P21
2. Apoptosis is: -
 - a. Programmed cell death often during development
 - b. Death of cells in multicellular organisms as a result of infections
 - c. Death of cells due to single toxin molecules
 - d. An event that only occurs in invertebrates
3. Arrange the following phases of mitotic division in order of their occurrence: -
 1. Anaphase
 2. Telophase
 3. Metaphase
 4. Prophase
 - a. 1-2-3-4
 - b. 4-3-1-2
 - c. 4-1-3-2
 - d. 4-2-3-1
4. During which stage of mitosis does the spindle fibres form and get attached to the chromosome: -
 - a. Metaphase
 - b. Anaphase
 - c. Prophase
 - d. Telophase
5. All tumor cells are cancerous: -
 - a. True
 - b. False
6. Name the process by which malignant cells spread throughout the normal cells: -
 - a. Transformation
 - b. Metastasis
 - c. Invasiveness
 - d. progression
7. The following is not a type of cancer: -
 - a. Carcinoma

- b. Sarcoma
 - c. Leukemia
 - d. Caspases
8. Angiogenesis refers to: -
- a. Differentiation process
 - b. Growth factor
 - c. Contact inhibition
 - d. Blood vessel formation
9. The name given to a malignant tumor associated with the glandular cell type is: -
- a. Carcinoma
 - b. Sarcoma
 - c. Angiomas
 - d. adenocarcinoma
10. All except one are used in diagnostic and prognostic procedures: -
- a. Core needle biopsy
 - b. Mammogram
 - c. Kidney function test
 - d. Bone scan
11. The process responsible for replacing and repairing tissues is: -
- a. Movement
 - b. Mobility
 - c. Cell division
 - d. Growth
12. Lysosomes are formed from which cell organelles: -
- a. Nucleus
 - b. Endoplasmic reticulum
 - c. Golgi bodies
 - d. Ribosomes
13. The following statement is not true about of meiosis: -
- a. As a consequence of meiosis, the number of chromosomes is double in the resulting cells
 - b. Meiosis takes place in gonads for production of gametes
 - c. Meiosis takes place in two phases
 - d. During meiosis, the genes of the parent cells are mixed in the resulting cells.
14. The process that distinguishes malignant from benign tumor is: -
- a. Rate of tumor growth
 - b. Size of tumor
 - c. Location of tumor
 - d. All of the above
15. The most prevalent cancer among women in Kenya is: -
- a. Cervical cancer
 - b. Lung cancer
 - c. Breast cancer
 - d. Oesophageal cancer
16. This step of the nursing process includes the systematic collection of all subjective and objective data about the client: -

- a. Assessment
 - b. Planning
 - c. Implementation
 - d. Diagnosis
17. The following is considered objective data: -
- a. A temperature of 38 degrees Celsius
 - b. A patients report of moderate pain
 - c. Complains of nausea
 - d. Feelings of sleepiness
18. The following is true about end-of-life care: -
- a. It is one aspect of palliative care
 - b. It is synonymous with palliative care
 - c. It is defined by a specified time period
 - d. It does not include a focus on family
19. A true statement about interdisciplinary team involved in palliative care is: -
- a. social worker is not usually part of the team
 - b. members are the same across palliative care settings
 - c. Team members whose roles should be communicated to the patient and family
 - d. The patients primary care physicians is not usually a member of the team
20. Concept maps are most likely to increase understanding of new concept by: -
- a. Transferring attention of specific details
 - b. Focusing attention on specific details
 - c. Prioritizing academic content for study
 - d. Increasing ability to organize information logically

SECTION B: SHORT ANSWER QUESTIONS (30 MARKS)

1. Outline the cellular effectors that mediates immunity (6maks)
2. Explain the biochemical pathways that leads to apoptosis under the following sub headings(6marks)
 - a. Intrinsic pathway
 - b. Extrinsic pathway
3. State three (3) differences between mitosis and meiosis (6marks)
4. Outline the five (5) major classifications c of cancers (5marks)
5. Define the following terms as used in abnormal cellular growth pattern (5marks)
 - a. Anaplasia
 - b. Dysplasia
 - c. Hyperplasia
 - d. Hypertrophy
 - e. metaplasia
6. Outline two (2) differences between benign and malignant tumors (2marks)

SECTION C: LONG ANSWER QUESTION (20 MARKS)

1. a. Describe the mechanisms by which tumor cells evade the host immune system (10 marks)
- b. As an oncology nurse, you have been selected as a member of your hospital palliative care team. Discuss the five (5) roles of the palliative care team members (10mks).

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