

AMREF INTERNATIONAL UNIVERSITY SCHOOL OF MEDICAL SCIENCES DEPARTMENT OF NURSING & MIDWIFERY SCIENCES BACHELOR OF SCIENCE IN NURSING END OF SEMESTER DECEMBER 2023 EXAMINATIONS

COURSE CODE AND TITLE: BSN 214 HUMAN PATHOLOGY

DATE: 5-DECEMBER-2023

Duration: 2 HOURS

Start: 9:00AM

Finish: 11:00AM

INSTRUCTIONS

1. This exam is out of 70 Marks

2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions Section II: Short Answer Questions and Section III: Long Answer Questions

3. Answer ALL Questions.

SECTION I: MULTIPLE CHOICE QUESTIONS

- 1. The major mechanism of damage to cell membrane in ischaemia is: -
 - A. Reduced intracellular PH
 - B. Increased intracellular accumulation of sodium
 - C. Increased calcium ions in the cytosol
 - D. Reduced aerobic respiration
- 2. Diabetic foot is an example of: -
 - A. Dry gangrene
 - B. Wet gangrene
 - C. Gas gangrene
 - D. Necrotising inflammation
- 3. For metaplasia, the following is True: -
 - A. It is a disordered growth
 - B. It affects only epithelial tissue
 - C. It is a reversible change
 - D. It is an irreversible and progressive change
- 4. Transudate differs from exudate in having the following EXCEPT: -
 - A. No inflammatory cells
 - B. Low glucose content
 - C. Low protein content
 - D. Low specific gravity
- 5. The infarct of which organ is invariably haemorrhagic: -
 - A. Kidney infarct
 - B. Splenic infarct
 - C. Lung infarct
 - D. Heart infarct
- 6. In atrophy the cells are: -
 - A. Dead cells
 - B. Shrunken cells
 - C. Irreversibly injured cells
 - D. Reversibly injured cells
- 7. The following chronic diseases is a autoimmune disorder: -
 - A. Systemic Lupus Erythematosus
 - B. Myasthenia Gravis
 - C. Kaposi Sarcoma
 - D. Hay Fever
- 8. The main cytokines acting as mediators of inflammation are as under EXCEPT: -
 - A. Interleukin 1 (IL-1)
 - B. Tumour Necrosis Factor α
 - C. Nitric Oxide
 - D. Interfon γ
- 9. When a person sustains injury the first line of defense that is initiated immediately to prevent further injury is: -
 - A. Walling off the injured area
 - B. Tissue macrophage invasion
 - C. Neautrophil invasion of the inflammed area
 - D. Increased production of granulocytes and monocytes
- 10. A 'keloid' is a type of: -
 - A. Cancer

- B. Cellular hyperplasia
- C. Infarct
- D. Scar

11. Cancer cells can readily be destroyed by radiation due to: -

- A. Fast mutation
- B. Rapid cell division
- C. Lack of mutation
- D. Lack of oxygen

12. Cigarette smoke is considered a cancer-causing agent, which could also be referred to as: -

- A. Oncogene
- B. Malignant
- C. Carcinogen
- D. Malignant

13. The spread of cancerous tissue from one location to another is called: -

- A. Migration
- B. Metastasis
- C. Angiogenesis
- D. Malignant

14. The type of cancerous tumors that are characterized as being nonsolid is: -

- A. Sarcomas
- B. Lymphomas
- C. Leukemia
- D. Carcinoma
- 15. The most important cause of delay of healing is: -
 - A. Inadequate blood supply
 - B. Infection
 - C. Foreign body presence
 - D. Poor nutritional state of the patient

16. The following is true about formation of granulation tissue: -

- A. Granulation tissue forms around day 6 from proliferation of fibroblasts and vascular endothelial cells
- B. Characteristic histological feature is presence of new small blood vessels (angiogenesis) and proliferation of fibroblasts
- C. The new vessels in angiogenesis are tight and restrict passage of plasma proteins.
- D. There is a similar amount of granulation tissue in wounds healing by both primary and secondary intention
- 17. The following genes is involved in the conversion of pro-oncogenes into oncogenes causing cancer: -
 - A. Metastatic genes
 - B. Angiogenesis genes
 - C. Transposons
 - D. Tumor suppressor genes
- 18. The therapies which will involve only the cancerous cells not the normal cells in treatment is: -
 - A. Immunotherapy

- B. Surgery
- C. Aromatherapy
- D. Chemotherapy
- 19. The following are endogenous antioxidants and/or free radical removers EXCEPT: -
 - A. Ceruloplasmin
 - B. Glutathione
 - C. Hydrogen peroxide
 - D. Vitamin C and E

20. In the "ABCD" guidelines to melanoma the "D" stands for: -

- A. Dimension
- B. Darkness
- C. Diameter
- D. Depth

SECTION II: SHORT ANSWER QUESTIONS-

- 1. Differentiate between neoplasia and hyperplasia.
- 2. Briefly describe granulomatous inflammation.
- 3. Define gangrene and describe the different types.
- 4. Briefly describe intracellular accumulations.
- 5. Briefly describe the various types of necrosis.
- 6. Describe the steps of wound healing by first intention

SECTION III: LONG ANSWER QUESTIONS

Answer ONE question

- 1. Describe the various stages of bone healing.
- 2. Describe the mediators of inflammation.

- 30 MARKS
- (5 Marks) (5 Marks)
- (5 Marks) (5 Marks)
- (5 Marks)
- (5 Marks)
- (5 marks)

20MARKS

(20 Marks) (20 marks)