

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences DEPARTMENT OF MEDICAL SCIENCES

DIPLOMA IN MEDICAL LABORATORY SCIENCES (DMLS 11M)

AML 2254: HISTOLOGY

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: February 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

- Answer booklet

This paper consists of **TWO** sections.

Answer all questions in **Section A** and **B.** $\frac{1}{2}$ marks deducted for any wrong answer in **Section A**.

This paper consists of **6 PRINTED** pages SECTION A (40MARKS)

- 1. The following do not define diagnostic cytology as a science mainly exsolliation of cells from
 - a) Epithelial surfaces
 - b) Various tissues
 - c) Embalmed tissues
 - d) Macerated tissues
- 2. Diagnostic cytology methods of specimen collection making includes the following except
 - a) Those form natural secretions
 - b) FNA and body fluids
 - c) Open biopsy
 - d) Embalmed body tissue
- 3. The following are not advantages of pap smear
 - a) Painless and simple
 - b) Detect cancer and precancer
 - c) No cellular distertin
 - d) Not infectious
- 4. Cytological specimens include
 - a) Sputum
 - b) CSF
 - c) Stool
 - d) Blood
- 5. The following are instructions for cervical smear collection
 - a) Undouched vagina atleast a day
 - b) Absence of pressuries a day
 - c) Douching
 - d) Coitus
- 6. Cytological fixatives includes
 - a) Denatured alcohol
 - b) Ether alcohol mixture
 - c) Formalin
 - d) Mercuric chloride
- 7. An adequate sample
 - a) Provides a representatic of appropriate zone
 - b) Accurate representation of abnormalities present
 - c) Presence of endocervical
 - d) Adequate specimen
- 8. The following are not smapling devices
 - a) Wooden spatulas
 - b) Plastic devices

- c) Wire loop
- d) Cryopiputes
- 9. The following are not purposes of museum techniques
 - a) Exhibition of common pathological conditions
 - b) Sources of materials for research and teaching
 - c) Cinema
 - d) Finance
- 10. The choice aid design of the museum forms depend on except
 - a) Tissue size
 - b) Avallability of materials
 - c) Number of technicians
 - d) Museum size
- 11. Special techniques in museum include the following except
 - a) Injection
 - b) Maceration
 - c) Post mortem
 - d) Fixation
- 12. Keiserling solution III has the following except
 - a) 40% formaldehyde potassium acetate
 - b) Glycerine distilled water sadium hyclroxide
 - c) Potassium nitrate, 40% formaldehyde
 - d) Tap water, 80% alcohol
- 13. The following are purposes of embalming
 - a) Disinfection, preservation
 - b) Restoration
 - c) Autoclaving
 - d) Maceration
- 14. The following are malignant neoplasm's characteristics except
 - a) Rapid increase in size
 - b) Anaplasia and metastasis
 - c) Slow growth and different ion
 - d) Absence of metastases, rapid increase in cell size
- 15. Neoplasms can be characterized by
 - a) Their evidence
 - b) Death rate
 - c) Race
 - d) Age and sex
- 16. The following are some treatment intervention for neoplasia
 - a) Surgery, chemotherapy
 - b) Radiation, immunotherapy
 - c) Fasting

- d) Hospice
- 17. The following should be contained in cytology laboratory
 - a) Reception, specimen collection room
 - b) Processing, stunning and reporting
 - c) Infection prevention
 - d) Conference
- 18. The following are cytological stenning methods
 - a) Papanicolou
 - b) Mayciranward
 - c) Eosin
 - d) Zn
- 19. The importance of keeping smears for 3-5 years is
 - a) Quality control
 - b) Follow up
 - c) Inspection
 - d) Resource nobilization
- 20. Inflammatory smear can reveal
 - a) Marked leucocytocin
 - b) Pathogenic organisms
 - c) Polygoral
 - d) Fine chromatin

SECTION B ESSAY (60MARKS) Answer all questions

Question ONE

a) Describe advantages of diagnostic cytology
b) Outline the maceration method by Edward of 1959.
(10marks)
(10marks)

Ouestion TWO

a) Describe the organizational structures of a cytology lab
b) State cytological specimens that are processed in a cytology lab
(10marks)
(10marks)

Question THREE	
Discuss the papanicolon stunning procedure in cytology.	(20marks)