



TECHNICAL UNIVERSITY OF MOMBASA
Faculty of APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATIONS FOR DEGREE IN
BACHELOR OF MEDICAL LABORATORY SCIENCE
BMLS 12S MID ENTRY

AML 2301 : HISTOLOGY

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

1. Answer All questions in section A and B.
2. This paper consists of Eight printed pages

1. The following staining Techniques can be used for demonstration of Fung. EXCEPT

- A. MARTIN SCARLET BLUE.
- B. GORDON'S AND SWEET
- C. GROCOTTS
- D. PAS
- E. AIKALI CONGO RED

2. The following are CTTOPASMIC DYES which gives a red color . Except.

- A. ROSE Benger
- B. Bouroex Red (c)
- C. PHLOXINE
- D. ERYTHROSIN
- E. TEYRAZINE

3. The following are microtimes used for frozen sections Except.
- A. Cryostat
 - B. ULTRA
 - C. Therms Electric Cooling Device
 - D. Freezing
4. The following ARE EMBEDDING media used for filozen sections except
- A. Gelatin
 - B. Agar
 - C. Gum Arabic
 - D. Water soluble waxes
 - E. Ester waxes
5. The following is a technique used for demonstation of Amyloid
- A. Congo Red
 - B. Ledrim'c phloxine tetraline
 - C. pasm
 - D. Picromallory
 - E. PAS
6. The following are lubricants except
- A. Castor oil
 - B. Clove oil
 - C. Mineral oil
 - D. Zinc oil
 - E. Olive oil
7. The following are techniques used for demonstrating of and mulins except
- A. South gate mucicarmine
 - B. Hole's colloidal iron
 - C. Apcian Blue
 - D. Hexamine silver tek
8. The following are hones except
- A. Belgium yellow
 - B. Fine carborandum
 - C. Plate Glasss 8x3x1
 - D. Zinc Oxide
 - E. Arkandas

9. The following techniques can be used for demonstration of Glycogen except.
- A. Best carmine
 - B. Pas
 - C. Pasm
 - D. Hexamine silver tek
10. The following are Alum Haema Toxylins except
- A. Maters
 - B. Haiden Hain's susa
 - C. Detafield
 - D. Einersson's Gallocyanin
 - E. Coles
11. The following are microtime knives except
- A. Biconcave
 - B. Semi planoconcave
 - C. Plano convex
 - D. Tool Edge
 - E. Plan wedge
12. The following are stops except
- A. Lanvas
 - B. Horse Hide
 - C. Leather
 - D. Carborandum paste
13. The following are Accentuators except
- A. Phendc
 - B. Aletic Acid
 - C. Citric Acid
 - D. Glycerol
14. The following are Accentutors except
- A. Hydrogen peroxide
 - B. Potassium per management
 - C. Sodium 10 date
 - D. Mercuric oxide
 - E. Chloral Hydrate
15. The following are resindus mounting media except
- A. Colophonism Resin

- B. Euparac
- C. Aparthy's
- D. Dammar Baisam
- E. Canada of Baisam

16. The following are synthetic mounting media except

- A. Xam
- B. BPS
- C. DPX
- D. Farrany

17. The following are ringing media except

- A. Nak varnish
- B. Cellulose
- C. Starch Paste
- D. AParaffin wax
- E. Duraffix

18. The following are Intravital stains except

- A. Trypan blue
- B. Congo red
- C. Neutral red
- D. Jank's Green
- E. Indian Ink

19. The following can be used for demonstration of Elastic fibres except

- A. Orin weiyaerts re
- B. Verhoeff's
- C. Weighert's
- D. Adehyde

20. The following are Aqueous media except

- A. Farrants
- B. MEHR'S Egg Dtbumin
- C. Aparthy's
- D. Water
- E. Glycerol

21. The following are constituents of Farrants except

- A. Gum Arabic
- B. Glycerine
- C. Arsenic Acid
- D. Gelatin

E. Water

22. The following are constituents of aparthys except

- A. Gum Arabic
- B. Cane sugar
- C. Thymol
- D. Glycerol
- E. Water

23. The following are mordants used with Haematoxylin except

- A. Phosphotungstic Acid
- B. Nitric acid
- C. Chromic alum
- D. Iron salts
- E. Ammonium Alum

24. The following are constituents of Glycerol mounting media except

- A. Glycerine
- B. Gelation
- C. Gum Arabic
- D. Phenol
- E. water

25. The following are Haematoxylin pigments except

- A. Haematoxylin
- B. Haemosiderin
- C. Haematoxylin
- D. Haemoglobin
- E. Haematemises

26. The following are Endogenous pigments except

- A. Melanin
- B. Kulschiyky cells
- C. Lipofuchsin
- D. Copper
- E. Silver

27. The following are Exogenous pigments except

- A. Silica
- B. Iron ore
- C. Carbin
- D. Asbestos

E. Calcium

28. The following are methods used for demonstration of Enterochromaffin cells except.

- A. Schmorn
- B. Masson fontana
- C. Diazo reageny
- D. Gibbs Indophenol
- E. GIEMSA

29. The following are methods used for demonstration of CHROMAFFIN cell Granules except.

- A. GIEMSA
- B. FIF
- C. Masson Fontano
- D. Schmorl's
- E. Diazo reagent

30. The following are methods used for demonstration of calcium except

- A. OGRESSIVE stainig
- B. Direct stainig
- C. HiSTOCHEMICAL stainig
- D. Non-vital stainig metachromatic staining

31. The following are True above perls Prussian Blue except

- A. OGRESSIVE stainig
- B. DIRECT staining
- C. Histochemical staining
- D. Non-vital staining metachromatic staining

32. The following are True about weighter staining except.

- A. Regressive stainig
- B. Indirect stainig
- C. Non-vital stainig
- D. Metallic Impregnation

33. The following LAN be used for demonstration of BILE pigments except.

- A. Gmellions
- B. H E
- C. Fouchets
- D. DIAZO REAGENT
- E. Rubeanic acid

34. The following are adding of paraffin wax Except

- A. BAYBERRY WAXES
- B. CARESIN
- C. STEARIC ACID
- D. PLASTIC WAXES
- E. RUBEANIC ACID

35. The following are forms of paraffin wax except

- A. BIOTD
- B. Tissue MAT
- C. PARA PLAST PLUS
- D. PARAPLAST
- E. PARALDEHYDE

36. The following are Embedding moulds except.

- A. Leukharts
- B. PAPER BOATS
- C. GLASS TUBIN
- D. WATCH GLASSES
- E. TISSUE BLOCKS

37. The following are Adhesives except

- A. Mehro EggAlbumin
- B. SODIUM SILICATE
- C. METHYL CELLULOSE
- D. AGAR
- E. SGELATIN

38. The following are Sudan dyes except

- A. Sudan III
- B. Sudan Black B
- C. Oil Red
- D. Sudan II
- E. Achlace

39. The following are solvents for celloidin embedding media except

- A. AMYL Acetate
- B. Castor oil
- C. Methyl Benzuate
- D. Aicohol lether mixture
- E. Olive oil

40. The following Reagents can be used for tissue storage and presentation except.
- A. 10% Formal saline
 - B. Neutral Buffered formalin
 - C. 10-20% diethyl glycerol
 - D. 1% phenocetal
 - E. Mercuric Chloride

SECTION B

QUESTION 1

- a) List of purposes of tissue storage and presentation. (2marks)
- b) Define an Agriophil reaction giving example (3marks)
- c) List 4 types of Alums (2marks)
- d) Write the differences between Alum haemalsaylin and iron Haematoxylin (4marks)
- e) Outline the difference between paraffin wax section and frozon section . (7marks)

QUESTION 2

- a) Discuss on if and staining technique. (10marks)
- b) Write short notes on frozen section. (10marks)

QUESTION 3

- a) Write short notes on enogenous prejments. (9maks)
- b) Discus Resins mounting media. (6marks)
- c) Write short notes on any two non-water soluble Embeddind MEDIA. (5marks)