Examination No. Kalemba Robert's COP1 Signature ...

UGANDA NURSES AND MIDWIVES EXAMINATIONS BOARD
YEAR 1: SEMESTER 1: EXAMINATIONS

CERTIFICATE IN MIDWIFERY

Anatomy and Physiology I and First Aid
Paper Code: CM 111

June 2023

3 HOURS

IMPORTANT

1. *Write your examination number on the question paper and answer sheets*
2. *Read the questions carefully and answer only what has been asked in the question*
3. *Answer all the questions*
4. *The paper has three sections*

Section A: *Objective questions.*

Section B: *Short essay questions.*

Section C: *Long essay questions.*

For Examiner's use only

Section	Qn.	Result	Initials
A	MCQs		
	Fill in		
B	31		
	32		
C	33		
	34		
Total			

Turn over

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SECTION A: Objective Questions

Circle the correct answer (20 marks)

1. Which of the following terms does the nurse record to refer to the blood ejected from the heart at every given minute?
   (a) Blood volume.
   (b) Cardiac output.
   (c) Cardiac capacity.
   (d) Venous return.

2. Which of the following stages of red blood cell development is characterized with more haemoglobin?
   (a) Pre-erythroblast.
   (b) Erythroblast.
   (c) Normoblast.
   (d) Reticuloblast.

3. Maturation of lymphocytes occurs in the
   (a) bone marrow.
   (b) thyroid.
   (c) spleen.
   (d) thymus.

4. Which of the following is **NOT** an aspect of the anatomy of an organ?
   (a) size.
   (b) cell type.
   (c) function.
   (d) shape.

5. Enzymes are made up of
   (a) carbohydrates.
   (b) steroids.
   (c) fats.
   (d) proteins.

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6. Which of the following cell organelles is directly associated with cell division?
   (a) Golgi apparatus.
   (b) Lysosomes.
   (c) Centrioles.
   (d) Ribosomes.

7. Which of the following mechanisms of cellular transport depends on blood pressure?
   (a) Filtration.
   (b) Diffusion.
   (c) Phagocytes.
   (d) Active transport.

8. The digestive tract is lined up by the .....membrane.
   (a) serous.
   (b) synovial.
   (c) mucous.
   (d) cutaneous.

9. Which of the following combinations represent the correct pairing of an organelle with its function?
   (a) Ribosomes -- DNA and RNA production.
   (b) Mitochondria -- ATP production.
   (c) Rough ER -- digestion of old cell parts.
   (d) Golgi apparatus -- protein synthesis.

10. Which of the following parts of the bone articulates with the acetabulum?
    (a) Femoral head.
    (b) Tronchanter of the femur.
    (c) The sacrum.
    (d) Humeral head.

11. Which of the following bones is NOT found on the skull?
    (a) Hyoid.
    (b) Zygomatic.
    (c) Mandible.
    (d) Sphenoid.

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12. The cells responsible for the formation of new bone are
    (a) osteocytes.
    (b) lacunae.
    (c) osteoblasts.
    (d) osteoclasts.

13. Intramuscular injections are commonly administered in the gluteus ..... muscles.
    (a) maximus and biceps.
    (b) medius and deltoid.
    (c) maximus and biceps.
    (d) medius and triceps.

14. The least common ABO blood group is type
    (a) O.
    (b) B.
    (c) A.
    (d) AB.

15. Which of the following cells play a major role in initiating the clotting cascade?
    (a) Erythrocytes.
    (b) Monocytes.
    (c) Platelets.
    (d) Eosinophils.

16. Which of the following substances is **NOT** transported by blood plasma?
    (a) Nutrients.
    (b) Oxygen.
    (c) Carbondioxide.
    (d) Hormones.

17. Blood leaves the heart during
    (a) ventricular systole.
    (b) atrial systole.
    (c) ventricular diastole.
    (d) atrial diastole.

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18. A person who regularly gives first aid should at least be immunized against
    (a) Hepatitis A.
    (b) Hepatitis B.
    (c) Rubella.
    (d) HIV.

19. The nurse records shock which occurs from acute loss of body fluids as
    (a) neurogenic.
    (b) haemorrhagic.
    (c) hypovolaemic.
    (d) cardiogenic.

20. Which of the following is **NOT** a sign of a fracture?
    (a) Paralysis.
    (b) Tenderness.
    (c) Swelling.
    (d) Deformity.

Fill in the blank spaces (10 marks)

21. The scientific name for white blood cells is.....
22. The percentage of plasma in human blood is .....%.
23. Humoral immunity is also referred to as .....
24. Natural killer cells eliminate foreign cells by damaging their.....
25. Carbondioxide is transported in blood mainly as.....
26. The largest organ of the lymphatic system is the .....
27. The longest and strongest bone in the human body is the .....
28. A type of bandage used to construct slings that support soft tissue injuries is called ..... bandage
29. Any life threatening condition requiring quick action in order to save life is classified as .....
30. A break in the continuity of a bone is called a .....

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Answer Sections B and C in the answer booklets provided

SECTION B: Short Essay Questions (10 marks)

31. (a) State five(5) functions of the stomach. (5 marks)
    (b) List five (5) sub-divisions of the large intestines. (5 marks)
32. (a) State five (5) roles of a first aider. (5 marks)
    (a) Outline five (5) first aid management actions that should be performed for a patient whose leg is bleeding severely. **(5 marks)**

SECTION C: Long Essay Questions (50 marks)

33. (a) Describe five (5) classifications of synovial joints. **(10 marks)**
    (b) Draw a well labelled diagram of the hip joint. **(10 marks)**
    (c) State five (5) functions of synovial fluid. **(5 marks)**
34. (a) List ten (10) essential components of a first aid kit. **(5 marks)**
    (b) State ten (10) steps involved in the procedure of applying a roller /crepe bandage. **(10 marks)**
    (c) State five (5) observations that a first aider must make on a patient who he/she has bandaged. **(10 marks)**

END

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