Examination No. _____ Signature .....

UGANDA NURSES AND MIDWIVES EXAMINATIONS BOARD
YEAR 1: SEMESTER 2: EXAMINATIONS

CERTIFICATE IN MIDWIFERY

Anatomy and Physiology II
Paper Code: CM 121

June 2024

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. The trachea is lined with..... epithelium
   (a) stratified squamous.
   (b) cuboidal.
   (c) transitional.
   (d) columnar ciliated.

2. In which part of the brain is the respiratory centre located?
   (a) Midbrain.
   (b) Medulla Oblongata.
   (c) Thalamus.
   (d) Cerebellum.

3. The excretory function of the body is primarily carried out by
   (a) ureters.
   (b) pelvis.
   (c) kidneys.
   (d) urethra.

4. Which of the following substances is **NOT** produced by the kidneys?
   (a) Renin.
   (b) Aldosterone.
   (c) Erythropoietin.
   (d) Calcitriol.

5. The part of the neurone that carries the action potential is
   (a) axon.
   (b) cell body.
   (c) cell dendrite.
   (d) synaptic knob.

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6. The part of the brain that allows people to control skilled voluntary muscle movement is
(a) basal nucles.
(b) cerebellum.
(c) pre-central gyrus.
(d) thalamus.

7. The innervation of the diaphragm is by the ..... nerve.
(a) spinal.
(b) vagus.
(c) phrenic.
(d) sciatic.

8. The neuro-transmitter released by all motor neurones at their synapses is
(a) norepinephrine.
(b) dopamine.
(c) adenosine triphosphate.
(d) acetylcholine.

9. Which of the following hormones is NOT a steroid?
(a) Androgens.
(b) Glucagon.
(c) Oestrogen.
(d) Progesterone.

10. The thyroid hormone functions to
(a) increase metabolism.
(b) decrease protein synthesis.
(c) decrease the rate of energy release.
(d) control sodium levels.

11. The hormone that stimulates the acini cells to produce milk at birth is
(a) lactogen.
(b) prolactin.
(c) oestrogen.
(d) progesterone.

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12. The innermost layer of the uterus is the
(a) myometrium.
(b) endometrium.
(c) perimetrium.
(d) decidua.

13. Normal flora found in the vagina is called
(a) acidophilus.
(b) bactobacillus.
(c) lactogen bacillus.
(d) lactobacillus.

14. The function of the epididymis is to
(a) secrete testestorone.
(b) store sperms.
(c) produce sperms.
(d) produce sex hormones.

15. The triangular base of the urinary bladder formed by the three orifices is
(a) uruchus.
(b) trizonal.
(c) trigone.
(d) sphincter.

16. Which of the following organs acts as a temporary store for urine?
(a) Bladder.
(b) Ureters.
(c) Kidney.
(d) Urethra.

17. The phase of urine formation that takes place in Bowman's capsule is
(a) secretion.
(b) filtration.
(c) reabsorption.
(d) excretion.

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18. Which of the following is NOT a basic taste felt on the tongue?
(a) Bitter.
(b) Sour.
(c) Salty.
(d) Sweat.

19. The part of the eye that produces images of the objects as seen by a person is the
(a) cornea.
(b) iris.
(c) retina.
(d) lens.

20. The expanded part of the ear nearest to the middle ear is the
(a) oval window.
(b) semicircular canal.
(c) vestibule.
(d) tympanic cavity.

Fill in the blank spaces (10 marks)

21. The normal range of urine produced in 24 hours for an adult is ..... mls.

22. Increase in glomorular filtration rate results in increased re-absorption of
.....

23. The cells which are phagocytic in the central nervous system are called
.....

24. Chemical substances released by the neuron to relay messages are called
.....

25. A hormone produced by the islets of Langerhans that regulates the amount of glucose in the blood is called .....

26. An oily anti-microbial substance secreted by the skin is called
.....

27. The space between the two layers that cover the lungs is known as
.....

28. The left and right airways of nasal cavity are separated by the .....

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29. The glands in the ear that produce waxy exudates are called
.....

30. The clear fluid which fills the space between the cornea and lens is called
.....

Answer Sections B and C in the answer booklets provided

SECTION B: Short Essay Questions (20 marks)

31. Outline ten (10) functions of the skin.

32. List five (5) endocrine glands and stating one function for each.

SECTION C: Long Essay Questions (50 marks)

33. (a) Outline eight (8) functions of the respiratory system.

(b) State six (6) differences between the right bronchus and left bronchus.

(c) List five (5) structures of the upper respiratory tract.

34. (a) With the exception of the uterus, list six (6) organs of the female reproductive system.

(b) With a well labelled diagram, describe the non-pregnant uterus.

(c) List six (6) supports of the uterus.

END

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