

NURS 115B

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS

NURS 115B: HUMAN PHYSIOLOGY II

STREAMS: Y2S1

TIME: 2 HOURS

DAY/DATE:

INSTRUCTIONS:

Answer ALL Questions

SECTION A MCQs (20 MARKS)

1. The following contract together to pump blood
 - a) Right atrium with the right ventricle and left atrium with the left ventricle
 - b) Right atrium with left atrium and right ventricles with left ventricle
 - c) Tricuspid valve and mitral valve
 - d) Aorta and pulmonary artery
2. Hormones that are lipids that are synthesized from cholesterol
 - a) amino acid-derived
 - b) polypeptide
 - c) steroids
 - d) eicosanoids
3. Blood pressure is the measure of
 - a) Pressure exerted by the blood on the walls of the blood vessels
 - b) Pressure exerted by the blood on the arteries
 - c) Pressure exerted by the blood on the veins
 - d) Pressure exerted by the blood on the aorta
4. The heart has how many chambers?
 - a) One
 - b) Two
 - c) Three
 - d) Four
5. Systolic Pressure is
 - a) The highest when blood is being pumped out of the right ventricle into the pulmonary artery
 - b) Lowers steadily during ventricle systole

- c) The highest when blood is being pumped out of the left ventricle into the aorta
 - d) An average of 80 mm Hg
6. My child just fell and was hurt, the anxious feeling that I feel is caused by:
- a) Glucagon
 - b) Insulin
 - c) Epinephrine
 - d) Adrenocorticotrophic
7. Motor neurons take messages
- a) from the muscle fiber to the central nervous system
 - b) away from the central nervous system to the central nervous system
 - c) that are classified
 - d) away from the central nervous system to muscle fiber
8. The junction between one neuron and the next, or between a neuron and an effector is called:
- a) A synapse
 - b) A dendrite
 - c) A neurotransmitter
 - d) A ventricle
9. All hormones react to a negative feedback except
- a) progesterone
 - b) estrogen
 - c) prolactin
 - d) oxytocin
10. Endocrine glands release hormones in response to
- a) Hormones from other endocrine glands
 - b) Chemical characteristics of the blood
 - c) Neural stimulation
 - d) All of the above
11. Chief cells produce
- a) epinephrine
 - b) glucagon
 - c) insulin
 - d) parathyroid hormone
12. This is needed to make immature sperm mature
- a) FHS
 - b) LH
 - c) FSH
 - d) HL
13. The difference between male and female sperm
- a) female sperm have a larger head
 - b) male sperm are heavier
 - c) female sperm are faster
 - d) male sperm are weaker
14. These become engorged with blood in an erection
- a) corpora cavernosa
 - b) fibrous envelope

- c) septum pectiniforme
 - d) integument
15. The entire process of sperm formation takes about
- a) 5-6 weeks
 - b) 7-8 weeks
 - c) 3-4 weeks
 - d) 9-10 weeks
16. Hyper Activation occurs when
- a) the sperm are introduced into the urethra
 - b) the sperm are ejaculated into the vaginal canal
 - c) the sperm begin to interact with the fertilizing layer of an egg cell
 - d) the sperm reach the cervix
17. It takes sperm _____ weeks to travel through the epididymis
- a) 6-8
 - b) 1-3
 - c) 2-4
 - d) 4-6
18. In sexual homology, the glans penis in the male is equal to _____ in the female
- a) clitoral hood
 - b) clitoris
 - c) clitoral glans
 - d) clitoral crura
19. In sexual homology, the _____ in the male is equal to the fallopian tubes in the female
- a) testis
 - b) appendix testis
 - c) vas deferens
 - d) seminal vesicle
20. These receptors react to foods treated with monosodium glutamate
- a) Salt
 - b) Sour
 - c) Bitter
 - d) Umami

SECTION B SHORT ANSWER QUESTIONS (20 MARKS)

1. Discuss feedback and feedforward control systems in human beings (6 marks)
2. Explain the role of integumentary system in maintaining body homeostasis (4 marks)
3. Outline two main roles performed by the Vagina (2 marks)
4. The pancreas is both an exocrine and an endocrine organ. Discuss (4 marks)
5. Describe the contraceptive options for men (4 marks)

SECTION C LONG ANSWER QUESTIONS (30 MARKS)

1. Describe Cardiovascular diseases that lead death and disability (20 marks)
2. Describe how female infertility is diagnosed and treated (10 marks)