



MANICALAND STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF APPLIED SOCIAL SCIENCES

PSYCHOLOGY DEPARTMENT

PSYCHOBIOLOGY

CODE: SSPS 211

SESSIONAL EXAMINATIONS

APRIL 2023

DURATION: 3 HOURS

EXAMINER: Ms. T. MUHLE

INSTRUCTIONS

- 1. Answer any **FOUR** questions.*
- 2. Total marks 100.*

Question 1

A neurotransmitter provides a chemical signal between neurons to inhibit or excite an action potential. Describe a model of this signaling including the roles played by;

- a. Synapse (5 marks)
- b. Receptors (5 marks)
- c. Post and pre-synaptic neurons (5 marks)
- d. Exocytosis and endocytosis (5 marks)
- e. The electric potential of the membrane (5 marks)

Question 2

What are the different types of drugs that affects the human nervous system and how?

(25 marks)

Question 3

Discuss any three theories of Vision and Audition.

(25 marks)

Question 4

Explain the main functions of the various parts of the brain.

(25 marks)

Question 5

Demonstrate your understanding of the following

- a. Resting potential (5 marks)
- b. Action potential (5 marks)
- c. Refractory period (5 marks)
- d. Synaptic junction (5 marks)
- e. Nerve Impulse (5 marks)

Question 6

Discuss the contribution of neuro-transmitters in normal and abnormal behaviour.

(25 marks)

END OF EXAMINATION