

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
PSYCHOLOGY**

PSYC 124: PHYSIOLOGICAL PSYCHOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 19/4/2023

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- i) Do not write on the question paper**
- ii) Answer question one and any other two**

Question One

- a) Describe how communication takes place between neurons. (4 marks)
- b) Discuss the four symptom of Parkinson's disease as a neurological disorder. (12 marks)
- c) Demonstrate your understanding of the following concepts giving an example in each case.
 - i) Sensory adaptation (4 marks)
 - ii) Sensory threshold (4 marks)
- d) Elaborate how the following hormones influence sexual motivation in women.
 - i) Estrogen (3 marks)
 - ii) Progesterone (3 marks)

Question Two

- a) Explain the following deficits of skilled movements
 - i) Limb apraxia (3 marks)
 - ii) Oral apraxia (3 marks)

- iii) Constructional apraxia (3 marks)
- iv) Apraxic agraphia (8 marks)

Question Three

- a) Citing relevant situations, illustrate the following behaviour as a response to increase in the hormonal adrenaline.
 - i) Fight (3 marks)
 - ii) Flight (3 marks)
 - iii) Freeze (3 marks)
 - iv) Fawn (3 marks)
- b) Discuss the physiological actions of the following systems.
 - i) Sympathetic nervous system (4 marks)
 - ii) Autonomic nervous system (4 marks)

Question Four

- a) Discuss how the following neurotransmitters influence behaviour.
 - i) Serotonin (4 marks)
 - ii) Acetylcholine (4 Marks)
- b) Describe the functions of the following parts of the brain
 - i) Frontal lobe (3 marks)
 - ii) Occipital lobe (3 marks)
 - iii) Temporal lobe (3 marks)
 - iv) Parietal lobe (3 marks)

.....