



JANUARY-APRIL SEMESTER 2025

FINAL EXAMINATION

COU 3423: BRAIN AND BEHAVIOR

Answer questions **ONE** and any other **TWO** questions. Section A carries 20 marks and for section B Each question carries 10 points for total of **40marks**.

SECTION A: COMPULSORY QUESTIONS

Question 1

- a) Differentiate between the following terms (6mks)
 - I. Neurons and Glia cells
 - II. Brain and Behavior
 - III. Perceptions and Sensation
- b) Giving example of each, examine two importances of studying brain and behavior (4mks)
- c) Briefly discuss the functions of at least three parts of the cerebral cortex. (6mks)
- d) What does it mean when we say that language is generative? Give an example. (2mks)
- e) Briefly examine, the behavioral problems that would happen to an individual with some injuries/defect in the basal ganglia part of the brain. (2mks)

SECTION B

Question 2

- a) Providing an example of each, compare retrograde amnesia and anterograde amnesia. (4mks)
- b) Discuss three types of long- term memory, giving an example of each. (6mks)

Question 3

- a) Explain why schizophrenia and dyslexia might be considered disorders of time perception. (2mks)
- b) Explain at least two key personal components of mental health disorder. (2mks)
- c) Examine at least three negative symptoms of schizophrenia. (6mks)

Question 4

- a) Distinguish between consciousness and attention. (2mks)
- b) Explore whether language is innate, or learned, or a combination of both? Give examples and reasons for your argument. (2mks)
- c) Jane was told by her doctor that she has lost her photoreceptor known as cones. Explain the implication of losing cones on behavior. (2mks).
- d) Explore two sensory processes that are importance to produce human experience of flavour. Provide examples. (4mks)

Question 5

- a) Explain two basic mechanisms by which a drug may change functional activity of the brain (4mks)
- b) Discuss at least three sleeping disorders as learnt in brain and behavior class. (6mks)