



**COURSE TITLE: COU3423: BRAIN AND BEHAVIOUR  
(3 Credit Hours)**

**EXAM DATE: DECEMBER 15, 2021  
DURATION: 3 HOURS  
TIME: 1800 - 2100HRS  
INSTRUCTIONS**

- Read the instructions and questions carefully before you write the answers.
- This Exam has **TWO SECTIONS**
- **SECTION A is Compulsory.**
- Answer any **TWO** questions in **SECTION B**
- *Write clearly and legibly.*

**SECTION A: Answer ALL Questions (20 Marks)**

**QUESTION 1:**

- a) Use two examples to discuss the argument that, “the human brain is a complex and intricate computer.” (4 Marks)
- b) Illustrate two importance of studying brain and behaviour as a mental health worker. (4 Marks).
- c) Explain two ways how the use of drugs interferes with the normal functions of the brain. (4 Marks)
- d) Describe the components of the Central Nervous System (CNS). (4 Marks)
- e) Discuss why the emotional system for most high school students tends to win the tug-of-war for control of behaviour in light of the current destruction of school property. (4 Marks)

**SECTION B: Answer ANY TWO Questions (20 Marks)**

**QUESTION 2:**

- a) Discuss any two areas in which the adult brain is subdivided. (4 Marks)
- b) Brain stimulation therapies are often used in treating depression:
  - i. Identity any two treatments therapies. (2 Marks)
  - ii. Explain how each of the two treatment therapies in (i) works. (4 Marks)

**QUESTION 3:**

- a) Identify and critique any two functions of the cortex lobes. (4 Marks)
- b) Discuss three ways why the amygdala is a powerful inhibitor or encourager of social behaviour. (6 Marks)

**QUESTION 4:**

- a) Explain why emotions are a complex behaviour that cannot be assigned to a single neural system. (4 Marks)
- b) Illustrate why it is important to study brain and behaviour as a mental health worker. (6 Marks).

**QUESTION 5:**

- a) Describe two ways how the “reward circuit” of the brain fosters addictions. (4 marks)
- b) In two ways, explore the relationship between the brain and depression. (4 Marks)
- c) Describe the importance of brain plasticity. (2 Marks)

***HAVE A VERY MERRY CHRISTMAS AND A HEALTHY 2022***