

**LOCATION: SWANSEA**

**LLEOLIAD: ABERTAWE**

**LEVEL 5**

**LEFEL 5**

**EXAMINATION PERIOD**  
**JULY 2020**

**CYFNOD ARHOLIADAU**  
**GORFFENNAF 2020**

**MODULE CODE: M5X00908**  
**BRAIN, BEHAVIOUR, AND COGNITION**

**TIME: 6 HOURS**

**THIS PAPER CONSISTS OF THREE SECTIONS. YOU SHOULD:**

**ANSWER TWO QUESTIONS OUT OF SIX IN SECTION A**

**ANSWER TWO QUESTIONS OUT OF SIX IN SECTION B**

**ANSWER TWO QUESTIONS OUT OF SIX IN SECTION C**

**ALL of your answers must be written on ONE SINGLE Word document. Submit the Word document to the module Turnitin portal on Moodle by the deadline.**

Please indicate clearly the question number of each question attempted.

You must include citations in your work, but you do not need to include a reference list.

## **SECTION A: ANSWER TWO QUESTIONS OUT OF SIX**

- 1. Name five of the major external features of a neuron. (5 marks)**
  
- 2. Briefly describe the three main differences between the sympathetic and parasympathetic nervous systems. (5 marks)**
  
- 3. Briefly describe the similarities and differences between somatosensory pain and neuropathic pain. (5 marks)**
  
- 4. Name any five structures of the Basal Ganglia. (5 marks)**
  
- 5. List any five symptoms of schizophrenia. (5 marks)**
  
- 6. Name five protective structures of the brain. (5 marks)**

**SECTION B: ANSWER TWO QUESTIONS OUT OF SIX**

- 7. Describe the four types of glial cells and explain their function. (10 marks)**
  
- 8. Describe the behaviours the seven main small molecule neurotransmitters are thought to regulate. (10 marks)**
  
- 9. Describe how visual information reaches the primary visual cortex from the retina. (10 marks)**
  
- 10. Describe the retinex theory of colour vision. (10 marks)**
  
- 11. Describe the two major streams of the auditory cortex and explain what type of auditory information they process. (10 marks)**
  
- 12. Compare and contrast Positron Emission Tomography (PET) with Electroencephalography (EEG) as techniques for studying the brain. (10 marks)**

## **SECTION C: ANSWER TWO QUESTIONS OUT OF SIX**

- 13. Describe and evaluate the methods used to examine memory deficits in amnesic patients, such as H.M, and explain what they tell us about the mechanisms of memory. (35 marks)**
  
- 14. Critically evaluate the suitability of using evidence from animal research to understand the mechanisms of the human brain and human behaviour. (35 marks)**
  
- 15. Explain, giving specific examples of test items, why a Common Neuropsychological Test Battery is of use when examining patients with suspected neurological disorders. (35 marks)**
  
- 16. Describe the symptoms and evaluate the efficacy of potential treatments for Epilepsy. (35 marks)**
  
- 17. Critically discuss the symptoms, classes, causes, treatments, neural basis, and animal models of anxiety disorders. (35 marks)**
  
- 18. Critically discuss what the research into intracranial self-stimulation tells us about the role of dopamine in drug addiction. (35 marks)**