

**UNIVERSITY OF BOLTON**  
**SCHOOL OF EDUCATION AND PSYCHOLOGY**  
**PSYCHOLOGY PROGRAMMES**  
**SEMESTER ONE EXAMINATION 2018/2019**  
**BIOPSYCHOLOGY**  
**MODULE NO: PSC5005**

Date: Wednesday 16 January 2019

Time: 10:00 – 13:00 (3 hours)

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**INSTRUCTIONS TO CANDIDATES:**

Candidates are advised that the examiners attach importance to legibility of writing and clarity of expression. **YOU ARE STRONGLY ADVISED TO PLAN YOUR ANSWERS.**

There are **SIX** questions on this paper.

Answer **TWO** questions.

All questions carry equal marks.

Start each answer in a fresh answer book.

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**Answer TWO questions**

1. Neurodegenerative diseases such as Alzheimer's, Frontotemporal and Lewy Body are unique in terms of pathology and psychological outcomes. With reference to at least two diseases, describe and assess these differences.
2. Impulsivity is included in the diagnostic criteria of several psychiatric disorders and yet is not well defined in psychological terms. Discuss in terms of appropriate imaging studies.
3. Learning and memory depend on plasticity at the cellular level and connectivity at the network level. Discuss.
4. The Gate Control Theory of pain provides an adequate account of the psychological factors associated with the perception of pain. Discuss.
5. Empathy depends on processing at the affective and cognitive level. Examine studies that differentiate between the neural mechanisms that support these processes.
6. Evaluate to what extent the physical aspects of addiction are moderated by psychological factors.

**END OF QUESTIONS**