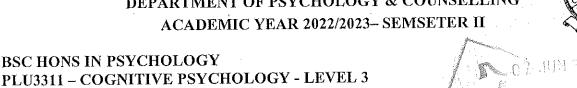
## THE OPEN UNIVERSITY OF SRI LANKA FACULTY OF HEALTH SCIENCES DEPARTMENT OF PSYCHOLOGY & COUNSELLING ACADEMIC YEAR 2022/2023- SEMSETER II





CONTINOUS ASSESSMENT TEST - NBT I
DURATION: 1 ½ HOURS

DATE:07.06.2023

TIME: 9.00-10.30am

INDEX NO:	***************************************	
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## IMPORTANT INSTRUCTIONS/ INFORMATION TO CANDIDATES

This question paper consists of 08 pages with TWO sections.

Section 1: 20 Multiple Choice Questions - (40 Marks)

Section 2: 12 Short Answer Questions - (60 Marks)

- Write your INDEX NO in the space provided.
- Multiple Choice Questions (Section 1): Indicate answers in the ANSWER SHEET provided by placing a cross (X) in INK in the relevant cage (answers in pencil will NOT be marked)
- Short Answer Questions (Section 2): Write the answer within the space provided.
- Do NOT remove any page/part of this question paper from the examination hall.
- Do **NOT** keep unauthorized materials, including mobile phones and other electronic equipment, with you during the examination

## SECTION 1: Multiple Choice Questions (20 Questions-40 Marks)

1.1	Which approach to studying human cognition focuses on psychological experiments to
	investigate processes such as perception, memory, attention, and learning?

- a Cognitive Neuroscience
- b Experimental Cognitive Psychology
- c Cognitive Neuropsychology
- d Computational Cognitive Psychology
- 1.2 The nervous system consists of two subsystems. What are those subsystems?
  - a Central and peripheral
  - b Brain and spinal cord
  - c Voluntary and automatic
  - d Observable behaviours and body sensations
- - a Brain
  - b Heart
  - c Nervous system
  - d Liver
- 1.4 Which field investigates brain functions by analysing the brain activity of brain-damaged patients?
  - a Cognitive Neuroscience
  - b Experimental Cognitive Psychology
  - c Cognitive Neuropsychology
  - d Computational Cognitive Psychology
- 1.5 Which area of the brain is responsible for controlling functions like attention and awareness?
  - a Midbrain
  - b Hindbrain
  - c Forebrain
  - d Cerebral cortex

BSC HONS IN PSYCHOLOGY PLU3311 – COGNITIVE PSYCHOLOGY-LEVEL 3 CONTINOUS ASSESSMENT TEST – NBT I - -2022/2023– SEMSETER II

- 1.6 Which method of research in cognitive psychology involves manipulating variables in a controlled setting?
  - a Quasi experimental method
  - b Natural observation
  - c Experimental method
  - d Correlational research
- 1.7 Which structure within the limbic system is involved in emotional management and emotional learning?
  - a Cerebellum
  - b Amygdala
  - c Hypothalamus
  - d Medulla
- 1.8 Which approach in cognitive psychology attempts to duplicate mental processes through computer simulations?
  - a Cognitive Neuroscience
  - b Experimental Cognitive Psychology
  - Cognitive Neuropsychology
  - d Computational Cognitive Science
- 1.9 What is the region of a neuron that generates new messages known as action potentials?
  - a Dendrites
  - b Axon hillock
  - c Terminal bulbs
  - d Myelin sheaths
- 1.10 Which type of long-term memory can be consciously described or reported?
  - a Episodic memory
  - b Semantic memory
  - c Procedural memory
  - d Priming memory
- 1.11 ...... the process by which we form meaningful understandings from the stimuli that is detected by our sensory organs. Choose the correct answer.
  - a Intelligence
  - b Memory
  - c Perception
  - d Language

- 1.12 Which method of research in cognitive psychology is conducted in real-world settings?
  - a Natural observation
  - b Experimental method
  - c Quasi experimental method
  - d Correlational research
- 1.13 Which mechanisms do neurons use to conduct information?
  - a Electrical impulses and chemical transmission
  - b Hormones and neurotransmitters
  - c Synaptic transmission and action potentials
  - d Dendritic signals and axonal transmission
- 1.14 Which class of chemicals uses the circulatory system to send messages throughout the body?
  - a Neurotransmitters
  - b Hormones
  - c Acetylcholine
  - d Dopamine
- 1.15 Which neurotransmitter is commonly associated with reward pathways and mood management?
  - a Acetylcholine
  - b Dopamine
  - c Serotonin
  - d Glutamate
- 1.16 According to the multistore model of memory, what are the three separate stores of memory?
  - a Sensory memory, long-term memory, working memory
  - b Sensory memory, short-term memory, long-term memory
  - c Short-term memory, working memory, episodic memory
  - d Working memory, semantic memory, procedural memory
- 1.17 What is the function of the episodic buffer in Baddeley and Hitch's working memory model?
  - a Temporary verbal storage
  - b Short-term store for visual and spatial information
  - c Integration of phonological loop, visuospatial sketchpad and the long-term memory
  - d Regulation of data distribution within working memory

BSC HONS IN PSYCHOLOGY PLU3311 – COGNITIVE PSYCHOLOGY-LEVEL 3 CONTINOUS ASSESSMENT TEST – NBT 1 - -2022/2023– SEMSETER II

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1.18	The capacity of short-term memory is limited to approximately  Which of the following is the correct answer?  a 5-7 items  b 10-12 items  c 15-20 items  d 20-30 items
1.19	Proactive interference occurs when
1.20	Chunking refers to the process of

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## ANSWER SHEET FOR SECTION-1

Q. No.	(a)	(b)	(c)	(d)
1.1				
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1.20				

	INDEX NO:
SECT	TION 2: SHORT ANSWER QUESTIONS (60 MARKS)
All Q	uestions are compulsory.
2.1	What is the purpose of correlational research in Cognitive Psychology? (5 marks)
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2.2	What is memory? (5 marks)
2.3	What is the primary function of dendrites in a neuron? (5 marks)
2.4	What is the difference between the experimental method and the natural observation method? (5 marks)
2.5	Describe the functions of the frontal cortex. (5 marks)
2.6	Explain the role of the hypothalamus in the limbic system. (5 marks)
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2.7	What is the main purpose of a synapse? (5 marks)
2.8	Name two important neurotransmitters in cognitive functioning and describe their roles
	shortly. (5 marks)
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2.9	What is the function of sensory memory? (5 marks)
2.10	What are the four components of Poddalar and Hills.
2.10	What are the four components of Baddeley and Hitch's working memory model? (5 marks)
2.11	What is the different between short-term memory and long-term memory in terms of capacity
	and duration? (5 marks)
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2.12	What is top-down processing? (5 marks)
	END OF OUESTION PAPER