



UNIVERSITY
OF
JOHANNESBURG

<u>FACULTY</u>	Education
<u>DEPARTMENT</u>	Educational Psychology
<u>CAMPUS</u>	APK
<u>MODULE</u>	NDL10A1 NEURODEVELOPMENTAL LEARNING NEEDS IN THE CLASSROOM
<u>SEMESTER</u>	First
<u>EXAM</u>	JUNE SUPPLEMENTARY 2018

<u>DATE</u>	: 27 July 2018	<u>SESSION</u>	: 08:00-10:00
<u>ASSESSOR(S)</u>	DR H DUNBAR- KRIGE		
<u>MODERATOR</u>	: DR JEAN FOURIE		
<u>DURATION</u>	: 2 HOURS	<u>MARKS</u>	: 100

NUMBER OF PAGES: 4 PAGES

INSTRUCTIONS:

1. Answer ALL THE QUESTIONS.
 2. Number your answers clearly
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QUESTION 1A

Link the concepts in section A to the various quotes in section B. Write the numbers in your examination book with the appropriate alphabetical letter next to the number (11).

	Section A		Section B
1	The Brain	a	The cerebral cortex is the largest and most recognizable part of the brain
2	Frontal lobe	b	Decodes visual signals
3	Amygdala	c	Produces and releases hormones
4	Right Cerebral Hemisphere	d	Integrates information from our senses to focus our attention on important things in the environment
5	Limbic system	e	All the nerve fibres connecting the forebrain, cerebellum and spinal cord pass through this part of the brain
6	Parietal lobe	f	Works with your hippocampus to create long-term memories of specific and emotional events
7	Pituitary gland	g	This lobe houses working memory which keeps relevant material available for a short time in order to make complex decisions
8	Brain stem	h	A large group of brain structures responsible for motivation, emotion, learning and memory
9	Corpus callosum	i	Command centre of the human body
10	Occipital lobe	j	Group of brain structures that controls voluntary movements, emotions and behaviour

11	Basal ganglia	k	A thick bridge of white tissue that joins the two hemispheres
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QUESTION 1B

Indicate which areas of the brain will be influenced by the following Neurodevelopmental Disorders (12)

- Attention Deficit Hyperactivity Disorder
- Autism Spectrum Disorder
- Specific Learning Disabilities
- Motor Disorders
- Communication Disorder
- Intellectual Disability

QUESTION 1C

Explain the link between the brain, hormones and the adolescent. In your answer also indicate what the influence of social media is on the brain (7)

TOTAL FOR QUESTION 1: 30 marks

QUESTION 2

Harvard University has established a Center on the Developing Child with a well-established knowledge base through research and practice. This knowledge base includes the development of core skills that teachers can build to support children and adolescents.

Write a short essay in which you explain the 5 core principles adults need to build in order to build the capacity of children and adolescents with neurodevelopmental learning needs (25).

TOTAL FOR QUESTION 2: 25 marks

QUESTION 3

Explain in a short essay how knowledge of the brain and neurodevelopmental challenges has the potential to transform teacher preparation and professional development and affect how students think about their own learning (15).

TOTAL FOR QUESTION 3: 15 marks

QUESTION 4

Read the case study and answer the relevant questions. The case study was adapted from Donald, D; Lazarus, S and Moolla, N (2014). Educational Psychology in social context. Cape Town: Oxford.

John is a 16 year old boy in a crowded and poorly equipped Grade 8 classroom in rural Limpopo. He has repeated two grades in the primary school and was promoted to Grade 8 as result of age. The teacher is worried that he will not reach the expected outcomes at the end of the year as she observed that he does not pay attention in the classroom; he is very distractible; does not give close attention to detail and often rushes to complete a task. He makes careless mistakes in school work. He is very impulsive and blurts out answers before a question is completed. His books are very untidy and not organised. It seems as if he does not listen when talked to – his mind is somewhere else. He can get sidetracked easily and does not follow through on instructions. The teacher is aware of his difficulties but does not know how to help him.

- Identify and describe the NDLN as illustrated in case study (10)
- Identify and discuss developmental domains which may be primarily affected by the particular NDLN (10)
- Indicate what you will do to support this learner in the classroom (10)

TOTAL FOR QUESTION 4: 30 marks

Grand total: 100