

# NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja, FCT Faculty of Health Sciences Department of Nursing Sciences 2024 1 EXAMINATION\_

Programme: Bachelor of Nursing Science

Course Code: NSC313

Course Title: Developmental Psychology as applied in Nursing

Course Credit Units: 3 Units

Time Allowed: 2 Hours Total Score: 70 Marks

Instruction: Answer All the Questions

## Question 1

(2 marks) 1(a). What is developmental psychology?

(b). Critically explore the major issues in the study of developmental psychology (6 marks)

(12 marks). (c). Describe how you can apply developmental psychology to your career

## Question 2

(a). Discuss how hereditary and environmental factors impacts childhood development. (10 marks)

(b). List and explain five (5) specific traits determined by heredity.

## Ouestion 3

(10 marks) Discuss five (5) factors influencing prenatal development.

## **Ouestion 4**

Write short note on the following.

(12 marks) a. Erikson's psychosocial development stages and age range

(8 marks). b. Physical development during adolescence

	iii.	Mention two plants that produce sucrose	(2Marks)
(2c)	1.	Briefly explain how monosaccharides units are linked	(2 Marks)
	ii.	Draw the structure of Trehalose and Maltose and identify any two	Secretarion.
		functional groups in both	(6 Marks)
OUE	STIO	N THREE	
12.3	W/ha	t do you understand by the term galactosemia?	(2 marks)
(30)	i Wh	en cyclic D-glucose reacts with methanol, what class of compoun	d is
	For	med? Illustrate with appropriate equation of reaction.	(4 marks)
VALLE	i Del	efly explain the function of Benedict's reagent.	(2 marks)
ii. What is Glycogen?			(2 Marks)
iii. State how cellulose differs from starch structurally			(4 Marks)
1	m. su	te now centulose differs from statem su detarany	
(2.0)	i Des	w the structure of lactose	(4 marks)
(36	ii Cin	e four (4) different classes of carbohydrates with at least one examples	each
	II. Cilv	e total (4) different classes of carbon, areas	(4 marks)
OI	ESTI	ON FOUR	702 C C C C C C C C
14:	i W	nat does it mean when we say sugar is levorotatory?	(2 marks)
ii. State the difference between gluconic and glucaric acid			(2 marks)
			(2 marks)
(4b) Name three polysaccharides that gives single type of monosaccharides on complete			complete
6.0	by in the	ydrolysis	(3 marks)
	II M	ention the main carbohydrate constituents of honey	(2 marks)
	::: 11	/hat are Monosaccharides	(1 mark)
(4c) i. Describe arabinoxylans			(4 marks)
14	C) 1. L	Using the Fisher projection formula, write the structural formula for L-al	dotetrose
	u.s	Camp the 1 lanet projection for the camp the cam	(2 marks)
	iii.	Draw the structure of α-D-glucofuranose	(2 marks)
Q	UEST	ION FIVE	
(	5a) i. l	Mention two sugars that are components of genetic materials	(2 marks)
	ii. S	show the reactions of quinoline with acyl and alkyl halides	(4 marks)
(	5b) i. W	hat are the similarities between Chitin and cellulose	(2 marks)
	3107	What is Glycogen?	(2 Marks)
	iii. Identify what is generated when DMF and phosphorus oxychloride are		
	****	together in the Vilsmeler reaction	(2 Marks)
(	Sc) i. B	riefly explain how to produce smokeless powder from cellulose	(3 Marks)
	ii. t	Ising equation only shows the reaction of triethyl orthoformate with ind	ole (5 Marks)