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NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Express way, Jabi-Abuja.

FACULTY OF SCIENCE JANUARY 2018 EXAMINATION

PROGRAMME	
COURSE CODE:	BIO 303
COURSE TITLE:	GENERAL CYTOLOGY
CREDIT UNIT:	3
TIME ALLOWED:	2HOURS
TOTAL MARKS:	70%

INSTRUCTION: ANSWER FOUR QUESTIONS IN ALL BUT QUESTION ONE IS COMPULSORY

1a. Define the term Radioisotopes? **2marks** b. List three methods of detecting Radioisotopes? 6marks c. List two advantages and three disadvantages of Autoradiography.5marks d. List two types of electron microscopes. 4marks e. Describe three autoradiography methods 3marks f. state the principle of electron microscope 5marks 25marks 2a. What is Numerical Variation? **5marks** b. List three types of Chromosomal and two types of Numerical variations. **5**marks c. what are karyotypes and their basic characteristics? 5marks 15marks 3a. Mention five general cytogenetic procedures and their roles. 5marks b. List five applications of cytogenetics. 10marks 15marks 4a. State five molecular composition of the cell. **5marks** b. Describe briefly the different structural levels of proteins. 10marks 15marks 5a. Describe five stages in mitosis. 10marks b. list five stages of growth and differentiation of embryonic cells. 5marks

15marks