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## NATIONAL OPEN UNIVERSITY OF NIGERIA UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI - ABUJA.

## FACULTY OF SCIENCE Department of Pure and Applied Sciences 2021\_2 Examination

**BIO 305: MOLECULAR BIOLOGY** 

Time allowed: 2hrs Credit Units: 2

Instruction: Answer question ONE (1) and any other THREE (3) questions

1 a. Concisely justify the study of molecular biology.
b. List and explain the two types of nucleic acid hybridization.
c. Write short notes on any two of the followings;
6marks
6marks

i. Citronii. Mutoniii. Recon

d. Justify the use of yeast in molecular biology. 5marks

2 a. Explain the steps of central dogma
b. Succinctly explain the structure of chromosomes.
c. Write short notes on the sex chromosomes.
5marks
5marks

3a. Explain gene expression in Bacteria.b. Write on Hormonal control of gene expression.6 marks9 marks

4 a. Briefly write on the polymer of nucleotides.

b. Explain the major activities that occur in Kreb's cycle.

6marks

5 a. Elucidate on the relationship of molecular biology and other biological sciences. 7marks

b. Justify the use of *E. coli* in molecular biology. 8marks