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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA FACULTY OF SCIENCE DEPARTMENT OF PURE AND APPLIED SCIENCES SEPTEMBER 2020_1 EXAMINATION

COURSE CODE: BIO 301
COURSE TITLE: GENETICS

CREDIT UNIT: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- 1a. List the three main goals of population genetics (6marks)
- 1b. Name the four types of chromosomes abnormalities (4marks)
- 1c. Define an euploidy (2marks)
- 1d. Name three inherited characteristic in man (3marks)
- 1e. What is an inborn error of metabolism? (3marks)
- 1f. Define haemophilia
- 1g. Explain what is nondisjunction (2marks)
- 1h. List the three ways in which polygenic traits can be distinguished (3marks)
- 2. Discuss the factors that affect Hardyweinberg principles (15marks)
- 3a. Discuss the application of aneuploidy (7marks)
- 3b. Explain the first single gene polymorphisms (3marks)
- 3c. Write short note on mRNA (5marks)
- 4a. Explain how genes determine sex in man (5marks)
- 4b. Discuss the relationship of environment and gene expression (5marks)
- 4c. Discuss polyplody in animals (7marks)
- 5. With examples, explain the different types of polyploidy (15marks)