MPLEX -

Department of Microbiology, Olabisi Onabanjo University, Ago Iwoye. Harmattan Semester examinations 2005/2006 Session. MCB 301 Microbial Genetics and Molecular Biology.

Time: 2 1/2 Hrs.

Instructions: Answer each Section on a separate booklet.

Section A

Answer question 1.

[a] Explain the term "Pseudo-dominance" using relevant examples. [b] Determine the F1 and F2 generations of a cross between a homozygous wild-type

female fruit fly and a hemizygous white type male fly.

Section B.

Answer one questions.

2. How would you demonstrate that DNA may be transmitted through:

(a) Specialised sex pilus.

b) Bacteriophage.

Section C.

Answer one question.

Define the following terms:

a) Mutants

b) Restriction enzymes.

c) Fingerprinting.

d) N.T.G.

Describe briefly the importance of microbial genetics in any two of the following:

a) Forensic studies.

Brewing.

Industrial researches.

d) Food processing.

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(9) mutants: is a organisms that is not found citing in the population . They are office some on the histories and sist only are also collect portotrophs organisms.

Description of Maria where the AMIN is first Timeners até que engymes il use to cut true ismin o pl at a Specific relognate site or at random. in prolects of DMA recombined win.

/ 3. Write short notes on the following:

uct con is the a) High frequency recombination.

b) Recipient host.

competence factor.

Transduction.

Transduction.

(b) it is the backere cell that is

(e) is the funite that is able to tell their de is de