MJAMTAUNIWRS]TY OF SR! LANM
FACULTY OF APPLIED SCIENC[S

B Sc (Speciil) D%ree in Applied Biolory
Fouilh-Year Seme(er I Examination -January/Februrry 202r

MlB 4207 - MICROBIAL CONETICS

Timc: Two (02) houn

Answcr il questions

I a) Discusswhyhorizonhlgenerffifer(HOT)maygivecenainbeteriaacomperitiveedge overlhe othercompeting bacteria in a complex bmterial community
({0 mark)

b) ftscrik thecuendy acceped mdels of hodzontal gene transfer in baderia
(fl mark)

2 a) Discuss briefly, thecurent taonomic cl6sifietion of archaea
(60 mrrk)

fiom othermicroorsmisms (40 mark)

3 Wrib m mcount on he tansFsble gnetic elements of bacteria
(r00 mrrk)

4 a) De$rihtheimpotuce,developmentanddifferentidionofthespecialidcellularfom hderocy$s found in cyanobacbirn Anoboe"o sp
(60 mark)

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