



FACULTY OF SCIENCE

DEPARTMENT OF BIOTECHNOLOGY AND FOOD TECHNOLOGY

ADVANCED DIPLOMA IN BIOTECHNOLOGY

MODULE BTN7X01

APPLIED DISEASE AND IMMUNE RESPONSE

CAMPUS DFC

MAIN SUMMATIVE ASSESSMENT NOVEMBER 2021

AVAILABLE DATE: 01/10/2021

DUE DATE: 01/11/2021

ASSESSOR(S):

DR K KONDIAH

EXTERNAL MODERATOR:

PROF AN TRAORE-HOFFMAN

MARKS: 40

NUMBER OF PAGES: 3

INSTRUCTIONS TO STUDENTS:

- 1. COMPLETE THE ACADEMIC INTEGRITY STATEMENT BELOW WITH THIS ASSESMENT.**
 - 2. SUBMIT THE ASSESSMENT ONLINE VIA BLACKBOARD.**
 - 3. REFERENCES MUST BE INCLUDED AND LISTED FOLLOWING THE HARVARD SYSTEM OF REFERENCING.**
 - 4. LABEL YOUR FILE AS FOLLOWS: FINAL ASSESSMENT_STUDENT NUMBER.**
 - 5. A TURN IT IN PLAGIARISM REPORT WITH LESS THAN 15% SIMILARITY SHOULD BE SUBMITTED.**
 - 6. GOOD LUCK!**
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Academic Integrity Statement

I, _____, certify on my honor as a student of the University of Johannesburg that I have neither received nor given aid on this assessment.

I have read and understood 'Policies and Plagiarism Declaration' available in UJ Blackboard. I agree to be academically honest and will not cheat, lie or steal to influence the accurate assessment of my work and understand that there will be consequences should there be suspicions and evidence of my dishonestly.

The assessment I submit is entirely my own work under strict examination conditions.

Signed by: _____

Student Number: _____

Date: _____

Write a referenced essay of between 1500-2000 words (excluding the references) providing an overview of the emergence of SARS-CoV-2 variants such as Delta, Mu and C.1.2. In your essay, further discuss why the Janssen and Pfizer-BioNTech COVID vaccines can still offer some protection against these variants. Also include with support from literature how you think herd immunity could be achieved and whether or not it can play a protective role against COVID in South Africa and the world. (40 marks)

NB: Indicate the word count at the end of your essay.