

United International University

School of Science and Engineering

Class Test 4; Year 2021; Semester: Summer



Course: BIO 3105; Title: Biology for Engineers, Section: C

Upload instruction: RENAME pdf file as "Bio3105_C_ID"

- 1 Show pictorial view of the nutrients supply and temperature control in a bioreactor. 5
- 2 Do you think we need a protocol to monitor transgenic animal issue? Propose some basic points that you think we should include in the protocol (it should be very brief). 6
- 3
 - (a) Name the specific fields where you can give your input as a computer engineer. 3
 - (b) Suppose you have a primer sequence GCATTA. In PCR you have a fragment of DNA with 25 spaces for bases which will repeat itself after every six sequences. If the above mentioned primer fits on the right hand side of your desired DNA strand, show the whole DNA strand before and show the whole picture after elongation process. 6