

United International University

School of Science and Engineering

Class Test 3; Year 2022; Semester: Spring

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



Class Serial: ; Name: ; ID:

1. Mention the enzymes needed to prepare a DNA sample before pushing it through gel electrophoresis. 3 CO1

2. Name the goods you would like to protect against biopiracy that is native to Bangladesh (Naming 5 would be sufficient). 3 CO1

3. Do you think you have scope to give your input as a computer engineer in personalized drug design? Give details.

5 CO3

4. Why do you put DNA sample in the negative terminal of the device for gel electrophoresis? 3 CO1

5. Suppose you have a restriction enzyme that has a recognition sequence GAATTC. How you would complete the rDNA for a given sequence of one strand as below show in a pictorial view (You need to complete the DNA with a complementary strand before starting the process). 6 CO3

ATATCGAACTTGCATCTGACGATCGTTATCGATCGACCGGTCGCCGAATTGCATCG

