United International University

School of Science and Engineering



Class Test 3; Year 2021; Semester: Fall

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

Class Serial: ; Name: ; ID:

Suppose you have a primer sequence GCAT. 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 (upper), show the whole DNA strand before
and show the whole picture after elongation process.

CO3

2. Suppose you have a restriction enzyme that has a recognition sequence CATTAG. 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). ATAACGATAGCCGTATTATGCAATGCATTACGATTAGCCGTATAAT

CO3

3.	Mention the significance of using agarose gel in gel electrophoresis.	2	CO1
4.	Give the name of 5 products we should protect against biopiracy in Bangladesh.	2	CO1
4.	Give the name of 3 products we should protect against biophacy in bangladesii.	2	COI

5.	Do you think you can design and contribute in a project in the area of molecular diagnosis from your own background?	6	CO3