

Department of Mathematics & Natural Sciences (MNS)

Course code: BTE406; Course title: Genomics & Proteomics

Exam: Midterm; Session: Summer 2024 Exam Time: 60 Minutes; Total Marks: 20

Student Name:

Student ID:

Part A

Answer all questions

1. Which of the following is NOT a prime number?

[3]

A. 2 B. 9 C. 13 D. 23

2. Simplify the expression: $3x^2 + 5x - 2x^2 - x$ A. $x^2 + 4x$ B. $x^2 - 4x$ C. $5x^2 + 4x$ [5]D. $-x^2 - 4x$

3. True or False - The building block of DNA is amino acids. A. True B. False

[3]

Part B

Answer any **four** questions from the following

4. Another multiple-choice question. A. Option A B. Option B C. Option C [4]D. Option D

5. What is the central dogma of molecular biology? Write a short note on the importance of the central dogma.

[2+4]

6. What geometric shape is shown in the figure below?

[2]



7. What geometric shapes are shown in the figures below?

[3]





Inspiring Excellence Inspiring Excellence Inspiring Excellence

Figure center

Figure right

Figure *left*

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8.	What geometric shapes are shown in the figures below? Insert vertical space.	[3.5
9.	What geometric shapes are shown in the figures below? Ans fill with line.	[3.5]
10.	What geometric shapes are shown in the figures below? Ans fill with box.	[3.5
11.	What geometric shapes are shown in the figures below? Ans fill with dotted lines.	[3.5]
12.	What geometric shapes are shown in the figures below? Ans line short.	[3.5