

Daffodil International University

Faculty Of Science & Information Technology

Department Of Computer Science & Engineering

Course Code: CSE 432

Course Title: NLP

QUIZ 3, Summer 2026

Time: 35 min

1. **Reference Translation:** *I love eating fresh mangoes every day*

Candidate Translation: *I love eating ripe mangoes every day*

a) Calculate the **3-gram precision (P_3)** of the candidate translation using **clipped counts**. 3

b) Calculate the **BLEU score** using **3-gram precision** and **brevity penalty (BP)**. 2

2. **Difference between Adequacy and Fluency.** 2

3. **Explain the mechanism of the Multi-Head Attention layer in the Transformer architecture.**

State the final output equation produced by this layer. 6

4. **What is the main difference between Encoder and Decoder in the Transformer.** 2