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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

Scanned with CamScanner