**Week 4 (8 Aug 2022 to 15 Aug 2022):**

**Unit 2.1 (Computer Networks) Homework**

1. Explain two differences between a router and a gateway.

[4 marks]

Router:1.used to join LANs together to form a WAN

2.offer additional features such as dynamic routing.

Gateway:1.Translate from one protocol to another

2.Do not support dynamic routing.

1. Explain why network buffering is necessary to ensure a more efficient streaming of large data files over the internet.

[6 marks]

1.Buffering helps devices with different data transfer sizes adapt ro one another.

2.When large data files are transferred between devices,the data is broken into small fragments.

3.The buffer receives,manipulates,and reassembles these fragments,allowing for files of any sizes to be transferred effectively.