

MAQB

Section 1 (6 marks per question)

Q1. Explain the role of the transport layer in the TCP/IP model and its core functionalities.

<i>Component</i>	<i>Marks</i>
concept	2 marks
explanation	2 marks
example	2 marks

Q2. Describe multiplexing and demultiplexing at the transport layer.

<i>Component</i>	<i>Marks</i>
concept	2 marks
explanation	2 marks
example	2 marks

Q3. Compare and contrast connection-oriented (TCP) and connectionless (UDP) transport protocols.

<i>Component</i>	<i>Marks</i>
concept	2 marks
explanation	2 marks
example	2 marks

Q4. How does the transport layer achieve process-to-process communication?

<i>Component</i>	<i>Marks</i>
concept	2 marks
explanation	2 marks
example	2 marks

Q5. What are the principles of reliable data transfer, and explain the stop-and-wait mechanism?

<i>Component</i>	<i>Marks</i>
concept	2 marks
explanation	2 marks
example	2 marks