

MINISTRY OF EDUCATION, HERITAGE & ARTS

YEAR 12 COMPUTER STUDIES – WORKSHEET 6 - 2021

Instruction: Use your activity book to write the answers only.

Strand 1 Sub Strand: Communications and Networks

MULTIPLE CHOICE QUESTIONS – Select the best answer for questions 1 and 3.
(3 marks)

1. Which process do modems use to convert a computer's digital signal into analog signals?

- | | |
|-----------------|--------------------|
| A. Digitization | C. Demodulation |
| B. Modulation | D. Synchronization |

3. The process where received packets through network are rearranged in the original order is called

- | | |
|-------------------|--------------------|
| A. Protocol. | C. Packetization. |
| B. Specification. | D. Identification. |

4. The networking strategy, where nodes have equal processing capabilities and can act as both the client and a server is known as

- | | |
|------------------|----------------------------|
| A. terminal. | C. client/server. |
| B. peer to peer. | D. distributed processing. |

SHORT ANSWER QUESTIONS

(a) Network Interface Card and Network Operating System are two well-known terms in networking. State **one** function of:

- | | |
|-------------------------------|-----------------|
| (i) Network Interface Card | (1 mark) |
| (ii) Network Operating System | (1 mark) |

(b) Explain **one** purpose of MODEM in a communication system. **(2 marks)**

(c) Define **communication channel** and state **one** example of a physical medium. **(2 marks)**

(d) Differentiate between **Wireless Fidelity** (WiFi) and **Worldwide Interoperability for Microwave Access** (WiMax) in relation to the coverage range. **(2 marks)**

(e) Explain the **packetization** process in data transmission. **(2 marks)**

(f) Write the long form of the following abbreviations:

- | | |
|------------|-----------------|
| (i) TCP/IP | (1 mark) |
| (ii) GPS | (1 mark) |