

TUNKU ABDUL RAHMAN UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

ACADEMIC YEAR 2023/2024

JANUARY EXAMINATION

**AACS1473 INTRODUCTION TO INFORMATION TECHNOLOGY**

MONDAY, 15 JANUARY 2024

TIME: 9.00 AM – 11.00 AM (2 HOURS)

DIPLOMA IN COMPUTER SCIENCE

DIPLOMA IN INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION SYSTEMS

**Instructions to Candidates:**

Answer **ALL** questions. All questions carry equal marks.

**AACS1473 INTRODUCTION TO INFORMATION TECHNOLOGY****Question 1**

- a) During your internship, you are assigned to set up a conference room for video conferencing.
- (i) Identify **TWO (2)** input devices, and **TWO (2)** output devices that are required for video conferencing. Briefly explain the usage of each device. (8 marks)
  - (ii) Analyse **TWO (2)** challenges of conducting video conferencing compared to face-to-face meetings. (6 marks)
  - (iii) Justify **THREE (3)** benefits of video conferencing to a company. (9 marks)
- b) Identify **ONE (1)** biometric input technology that can be used to login to a laptop. (2 marks)

[Total: 25 marks]

**Question 2**

- a) Explain **THREE (3)** disadvantages of using cloud storage to students. (9 marks)
- b) Distinguish between *transfer rate* and *access time*. (4 marks)
- c) Briefly describe **TWO (2)** types of system software. Identify **TWO (2)** examples for each of them. (8 marks)
- d) Describe the usage of the following utility programs:
- (i) Disk cleanup (2 marks)
  - (ii) Disk defragmenter (2 marks)

[Total: 25 marks]

**Question 3**

- a) Jane would like to setup a Local Area Network (LAN) for her house. Currently, she has three desktop computers, a laptop, a scanner, and a printer.
- (i) Draw a diagram to show how Jane could connect the desktop computers, a laptop, a scanner, and a printer by using a star network topology. (8 marks)
  - (ii) Discuss **TWO (2)** advantages of the star network topology used by Jane. (6 marks)

**AACS1473 INTRODUCTION TO INFORMATION TECHNOLOGY****Question 3 (Continued)**

- b) Jane would like to connect her laptop to the wireless speaker she just bought. Suggest a suitable type of wireless transmission media for Jane to connect the two devices. Justify your answers.

(5 marks)

- c) Briefly describe **ONE (1)** application for each of the following types of cable:

Type of cables	Example of applications
Twisted pair	
Coaxial	
Fiber Optic	

(6 marks)

[Total: 25 marks]

**Question 4**

- a) Explain **THREE (3)** signs that indicate a computer is infected by a virus. (9 marks)

- b) Discuss **TWO (2)** ways on how you can safeguard your online bank account from cybercriminals. (6 marks)

- c) Briefly explain how Virus, Worm, and Trojan Horse propagate. (6 marks)

- d) Describe **TWO (2)** job descriptions for a Web Designer. (4 marks)

[Total: 25 marks]