

This paper is in two sections A and B. Answer Question 1 in Section A and any other three questions in Section B.

SECTION A [24 MARKS]

Answer Question 1 [Compulsory]

1. (a) Sharon, a team leader in her company, is adding a short video to her slides to aid a presentation at a board meeting. The series of steps she followed are shown in Figure 1. Study and use it to answer questions 1(a) (i) to (iii).

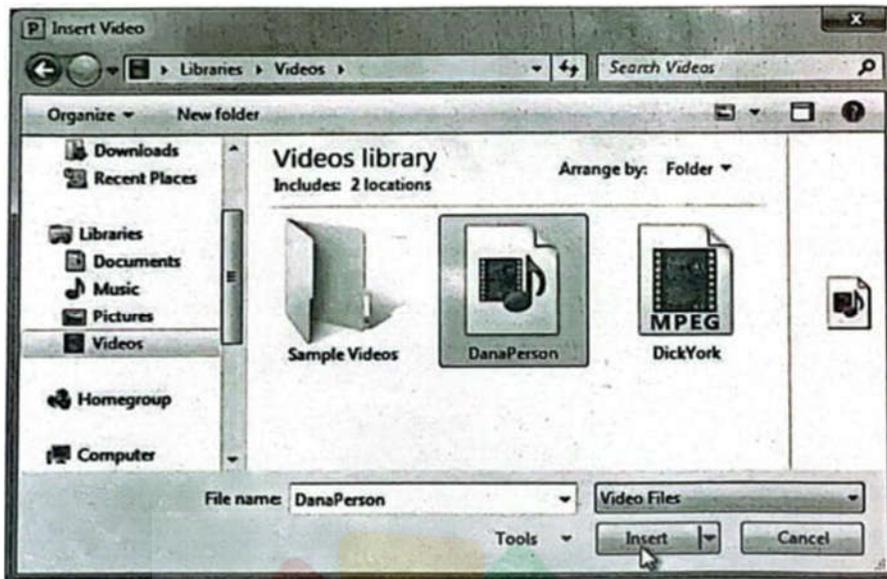


Figure 1

(i) Using the procedure shown above as a guide, describe how to insert a video from your computer into a PowerPoint presentation. [6 marks]

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(ii) Write the steps to help Sharon animate the slides in her presentation. [5 marks]

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(iii) Outline **three** benefits an audience enjoys from multimedia presentations. [3 marks]

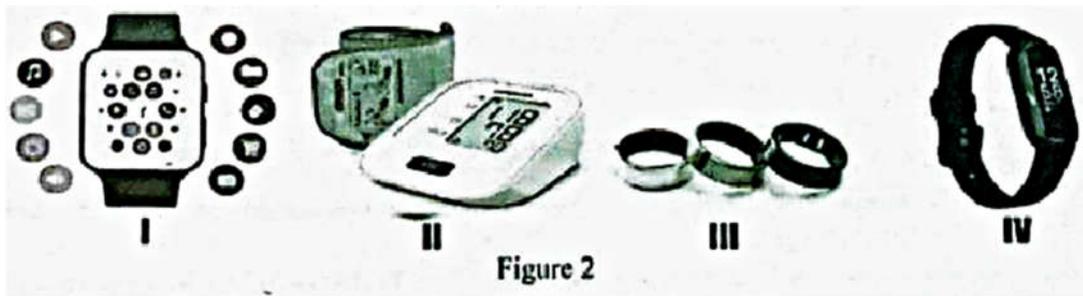
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(b) Mr. Adika wears a set of technology devices that help him monitor vital data. Figure 2 is the pictorial representation of the devices he uses. Study the pictures carefully and use them to answer questions 1 (b) (i) to (iv).



(i) Identify each of the devices labelled I, II, III and IV. [2 marks]

I; II;
III; IV;

(ii) Give **one** benefit Mr. Adika could derive from wearing each of I, II, III and IV. [4 marks]

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II;.....
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III;.....
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IV.....
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(iii) Give **two** differences between the devices labelled I and IV. [2 marks]

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(iv) State **two** challenges Mr. Adika might face in using the devices above. [2 marks]

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SECTION B [36 MARKS]

Answer three questions only in this section.

2. (a) Explain why Google's Sycamore computer is considered superior to traditional supercomputers. [3 marks]

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(b) Identify four key features expected in next generation computers. [2 marks]

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(c) At a school computing project, you have been tasked to demonstrate to your class how to sum two numbers, A and B using an algorithm in other forms. In the spaces below, translate the algorithm into pseudocode and flowchart. [4 marks]

ALGORITHM

PSEUDOCODE

FLOWCHART

ALGORITHM:
Step-1 Start
Step-2 Input first numbers say A
Step-3 Input second number say B
Step-4 $SUM = A + B$
Step-5 Display SUM
Step-6 Stop

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(d) Outline **three** benefits of applying algorithms in problem-solving. [3 marks]

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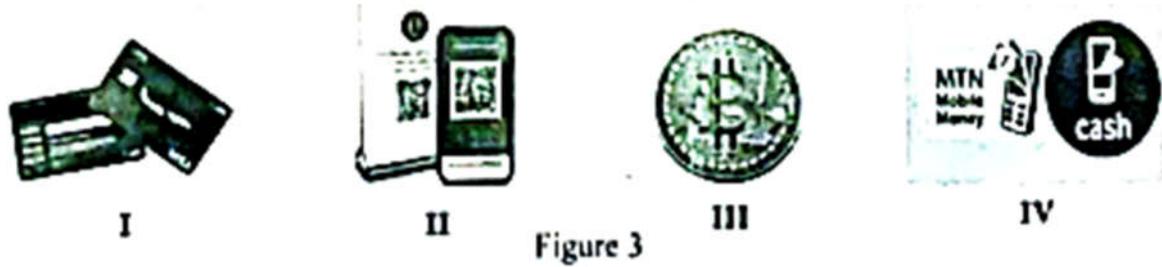
3. (a) (i) Explain cashless transactions as used in e-commerce. [2 marks]

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(ii) Identify each of the cashless payment platforms in Figure 3. [2 marks]



I; II;

III; IV;

(b) State two disadvantages of engaging in e-commerce. [2 marks]

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(c) (i) What is an Integrated Development Environment (IDE)? [2 marks]

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(ii) Identify two IDE tools and how you can explore each to conveniently write and run code. [2 marks]

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(d) Give two examples each of:

(i) plug-and-play devices; [1 mark]

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(ii) Perceptual Computing Devices; [1 mark]

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4. (a) Explain what device drivers are and the role they play in computers. [2 marks]

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(b) Rearrange the steps to update your computer drivers using the Device Manager tool. [5 marks]

- I. Select "Search automatically for updated driver software."
- II. Follow the prompts to complete the update.
- III. Expand the category of the device you want to update.
- IV. Right-click on the Start menu and select "Device Manager."
- V. Right-click on the specific device and choose "Update driver."

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(c) State one feature of each of the following storage systems: [3 marks]

(i) Network Storage System;

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(ii) Cloud Storage System;

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(iii) Holographic Storage System.

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(d) Give two possible applications of perceptual computing in education. [2 marks]

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5. (a) Name four e-Learning platforms you would recommend to your friends. [2 marks]

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(b) Explain the use of the following tools in Word documents.

[3 marks]

(i) SmartArt:

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(ii) Charts:

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(iii) Hyperlinks:

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(c) (i) What is Screen Clipping?

[2 marks]

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(ii) Rearrange the steps to insert a screenshot into your Word document using the screen clipping tool.

[3 marks]

- I. Go to the page where you want to insert the screenshot.
- II. Your screen will temporarily fade, and you'll see a transparent crosshair cursor.
- III. Click and drag to select the specific area of the screen you want to capture.
- IV. Click the "Insert" tab in the top menu.
- V. Locate the "Screenshot" option in the "Illustrations" group.
- VI. Choose "Screen Clipping" at the bottom of the drop-down menu.
- VII. Release the mouse button to insert the selected portion into your Word document.

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(d) Mention four ways of personalizing a new laptop you recently bought.

[2 marks]

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