

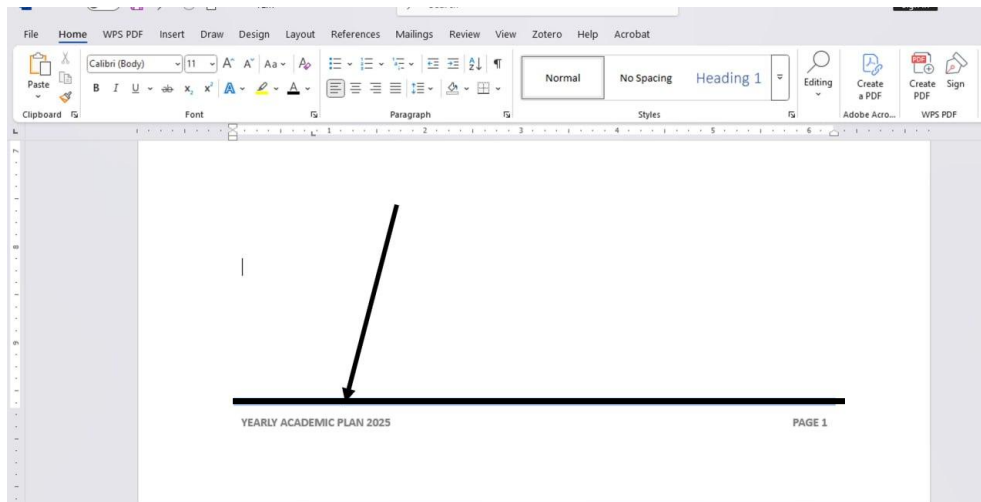
**SECTION A [30 MARKS]**  
**ANSWER ALL QUESTIONS**

**Question 1**

**[15]**

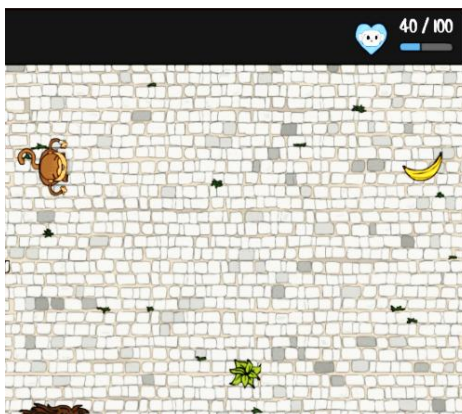
- a) For each question there are **FOUR** responses: **A, B, C** and **D**. Choose the corresponding letter of your response and **CIRCLE** it neatly. **NO** score will be awarded if you circle more than **ONE** letter.

- i. What is the name of the area shown below with an arrow at the bottom margin of the page?



- A Footer
- B Header
- C Text Area
- D Page number

- ii. Study the code given below.



Line	Code
1	<code>if health() == 40</code>
2	<code>goto bush</code>

The monkey's health is **40 out of 100**. What will happen when this code runs?

- A The monkey will go to the bush only if health is less than 40
- B The monkey will go to the bush no matter what the health is
- C The monkey will go to the bush because the health is exactly 40
- D The monkey will go to the bush because the health is exactly 100

- iii. How is Paint.NET different from Canva?
- A It's only used for creating animation
  - B It only allows drawing with pencil tools
  - C It can only be used to write text on images
  - D It offers drawing tools and advanced photo editing
- iv. Your friend is new to coding and can't spot the user-defined function. Which option correctly identifies it?

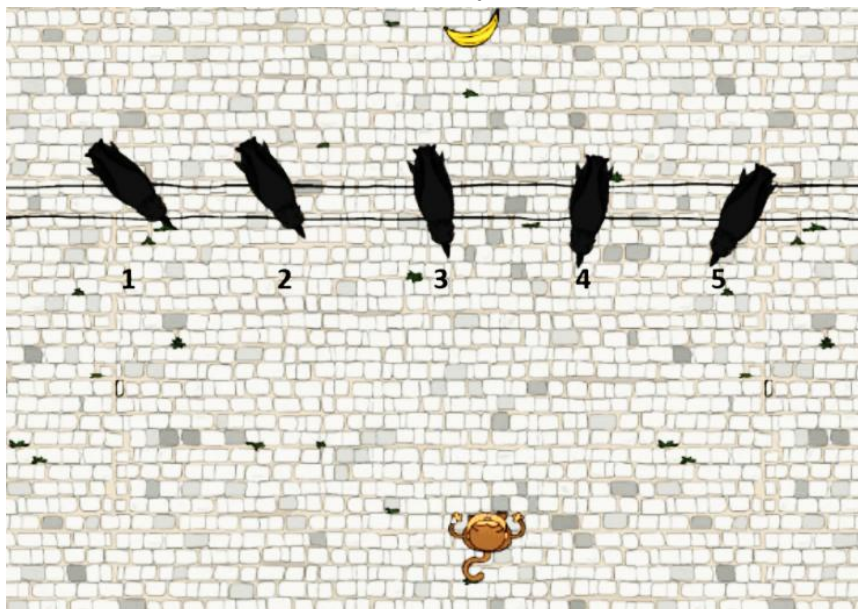
Line	Code
1	<code>gotoNearestHealth = () -&gt;</code>
2	<code>    d0 = distanceTo healthZones[0]</code>
3	<code>    d1 = distanceTo healthZones[1]</code>
4	<code>    if d0 &lt; d1</code>
5	<code>        goto healthZones[0]</code>
6	<code>    else</code>
7	<code>        goto healthZones[1]</code>

- A `if d0 < d1`
  - B `goto healthZones`
  - C `distanceTo healthZones`
  - D `gotoNearestHealth = () ->`
- v. A game character is at position `pos.x=5` and `pos.y=3`. What will be the new position if the character moves 2 steps right and 1 step up?
- A `pos.x=7, pos.y=4`
  - B `pos.x=3, pos.y=2`
  - C `pos.x=6, pos.y=5`
  - D `pos.x=5, pos.y=3`
- vi. Which of the following best describes the purpose of an online coding community?
- A A group where people play online games
  - B A group where people write codes online
  - C A group of people who share and learn coding online
  - D A group of people who talk, learn and share ideas online
- vii. Identify the event handler used to respond to a button click.
- A `onKey`
  - B `onClick`
  - C `onButton`
  - D `onMouseMove`

- viii. Dawa wants to write “Study Time Table” as shown below. What action should he take to write the title?

Study Time Table				
Day/Time	Morning	Evening	Night	Remarks
Monday	English	Science	ICT	

- A Add a new row below  
B Change the table border style  
C Merge all the cells in the top row  
D Split the top row into more columns
- ix. You want to send a project file to your teacher by email. Which of the following best describe the correct way?
- A Send a mail with the project file name  
B Attach the file, with a clear message and send it  
C Type the whole project in the subject line and send it  
D Just write the subject line with no message and send it
- x. Dorji wants to write a description of a photo using Paint.NET. Which tool should he use?
- A Text Tool  
B Select Tool  
C Colour Picker  
D Clone Stamp Tool
- xi. In the given Code Monkey challenge below, how should you access or refer to the second crow from the ‘crows’ array?



- A `crows [1]`  
B `crows [2]`  
C `crows [3]`  
D `crows [4]`

- xii. While doing her Science project, Selden finds two websites with different information. What should she do?
- A Choose both the websites
  - B Ask a friend to choose for her
  - C Trust the first website
  - D Compare both websites and check the source
- xiii. Nima is designing a game using Boolean operators. He wants to include two characters. Which Boolean operator should he use to include both?
- A OR
  - B NOT
  - C AND
  - D WITH
- xiv. While Raj was writing an email to submit his homework his computer got shutdown suddenly. Where will his incomplete email be saved?
- A Sent
  - B Inbox
  - C Spam
  - D Drafts
- xv. Karma wants the hero in her game to turn right when the right arrow key is pressed. What event logic should she use to achieve this?
- A Arrow event handler
  - B Keyboard event handler
  - C Mouse click event handler
  - D Mouse move event handler

- b) Complete the following statements using the most appropriate word(s) given in the box below. [5]

misinformation	disinformation	domain name	bullets
argument	array	multimedia	numbering

i.	You are writing a function in your coding class. The input data that the function needs to perform its task is an _____.
ii.	Your friend shared a false statement online without knowing it was wrong. This type of information is called _____.
iii.	Dechen's email address is <b>dechen@gmail.com</b> . The part that comes after "@" is _____.
iv.	When we use images, audios, videos and texts, altogether to share information, it is called _____.
v.	While creating a list, a small symbol placed before each item is called _____.

- c) Match each item in column A with the most appropriate item in column B. Write the correct letter in the space provided in the 'Answer' column. [5]

Column A	Column B	Answer
i. A programmer wants to repeat an action until a bird stops watching.	a. User defined Function	i.
ii. A light image or text that we add behind the main content of a document.	b. Flow Chart	ii.
iii. Checking author's background and publication date before using an online material.	c. Algorithm	iii.
iv. Dorji writes <code>onKey=(key)-&gt;</code> to trigger a response when a key is pressed.	d. Watermark	iv.
v. It's a well-defined, step by step set of instructions to solve a problem or perform a task.	e. Until loop	v.
	f. Evaluating Information	
	g. Background	

- d) Write TRUE or FALSE for the following statements in the space provided in the 'Answer' column. [5]

Statement	Answer
i. Objects are elements or things that appear and can be interacted with each other in the CodeMonkey platform.	
ii. Email is environmentally friendly because it does not require the use of paper.	
iii. Canva is an offline graphic design tool that does not need an internet connection to edit images.	
iv. Comparison operators check two values and return true or false based on the result.	
v. We can directly use the information posted on Facebook page because it has more likes and shares.	

**SECTION B [30 MARKS]**  
**ATTEMPT ALL THE QUESTIONS**

**Question 2**

- a) You are doing an ICT project on the topic, "information literacy". Write a plan showing how you will search for information from **TWO** different sources for the project. [2]


- b) Your friend wants to join an online coding community. Suggest **ONE** online coding community that you would like your friend to join. Explain why you want him to join it. [2]


c) Study the code given below and write an algorithm that performs the same task.

[2]

Line	Code
1	<code>if not banana.rotten()</code>
2	<code>goto banana</code>

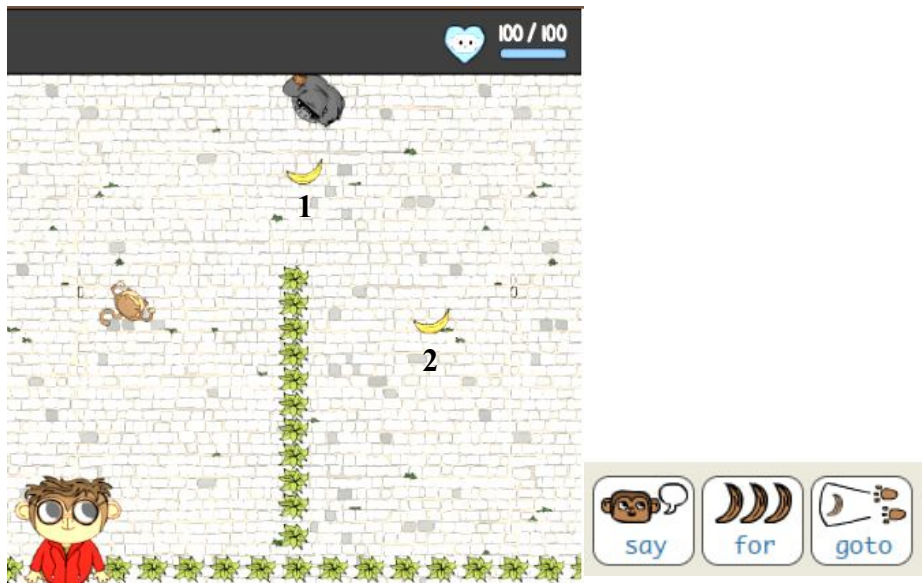

**Question 3**

a) Two images are shown below, one before editing and the other after editing. Compare the two images and identify any **TWO** changes made in the edited (after) image.

[2]




- b) You are given the Challenge (refer to the image). The task involves solving a problem using code, but **without using a for loop**.



- i. Create a flow chart to solve the given challenge.

[2]

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ii. Read the above challenge and write the code to complete the challenge.

[2]

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**Question 4**

a) Jigme joined the Scratch website to share his project. Write **ONE** guideline/rule that he should follow when using an online Scratch community.

[1]


b) The monkey wants to reach the banana on the other side of the river by crossing a wooden bridge. Use event handlers and movement commands to guide the monkey. Review the code and respond to the questions given below.



Line	Code
1	<code>onMouseMove = (pos) -&gt;</code>
2	
3	<code>onKey = (key) -&gt;</code>
4	

i. Give one real life example where either of the above event handler is used.

[1]


ii. Observe the image and rewrite the complete code to help the monkey collect the banana and earn 3 stars.

[2]

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c) You are creating a project in MS Word. Name any ONE feature you would use to improve your document. Briefly explain what the feature does.

[2]


**Question 5**

a) The monkey must cross the river using the turtle to reach the banana. Study the diagram given below and answer the questions that follows.



Line	Code
1	<code>monkey.onClick = () -&gt;</code>
2	<code>    monkey.step 3</code>
3	
4	

- i. Explain how the object (monkey) is linked to the `onClick` function in the program. [1]


- ii. Explain what happens in the program when you run the code and click on the monkey. [1]


- iii. Write the correct code needed to complete the challenge and earn three stars. [2]

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- b) Norbu wants to plan a program, but is confused whether to use an algorithm or a flowchart. Which one would you recommend for better planning, and why? [2]


### Question 6

- a) Dear Friend,

I hope you are doing well! I am having a birthday party on Saturday at 6:00 PM at my house, and I would love for you to come. We will have fun games, music, and snacks!

Read the email above and write a suitable subject line and a closing sentence to complete the message. [2]


- b) Tashi learned IF statement in his ICT class, and he wants to apply this concept in real life. State TWO situations where it can be applied. [2]


- c) Use the code below to complete the table.

Line	Code
1	If not raining:
2	goOutside
3	else:
4	stayInside

[2]

Raining	Not Raining	Output	
Yes	_____	stayInside	
No	Yes	_____	