

1.2 Program Function and Purpose

Name: _____ Class: _____ Date: _____ **Total: 10 marks**

KEY WORDS input 输入 • output 输出 • purpose 目的 • event 事件

Objective

Build the skills to answer exam questions on **program function and purpose**.

You must be able to:

- explain the **purpose** 目的 of a program (the problem it solves)
- describe how a program **functions** as a sequence of instructions
- identify a program's **inputs** 输入 and **outputs** 输出
- explain how an **event** 事件 affects execution

1 Worked examples

Study these first. Each one shows the method for a question type used later.

■ Purpose vs function

The **purpose** is the problem the program solves or the value it provides; the **function** is **how** it works — the sequence of instructions it runs.

■ Inputs and outputs

Inputs can be text, clicks, images, audio, or data from another program; **outputs** can be displayed text, sound, visuals, or tactile feedback.

■ Events

An **event** is an action associated with input (e.g. a click or key press) that triggers part of the program to run.

2 Practice

2.1 State the difference between a program's purpose and its function. [2]

2.2 Give two examples of program input. [2]

2.3 Define an event in a program. [1]

3 Exam-style questions

3.1 The purpose of a program is [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** the language it is written in
B the problem it solves
C its file size
D its author

3.2 A mouse click that starts an action is an example of an [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** output
B event
C variable
D loop

3.3 A weather app takes a city name and shows the forecast.

- (a) State its input. [1]
(b) State its output. [1]
(c) State its purpose. [1]