

1.1 Collaboration

Name: _____ Class: _____ Date: _____ **Total: 9 marks**

KEY WORDS users 用户 • pair programming 结对编程 • bias 偏见 • collaboration 协作
• feedback 反馈

Objective

Build the skills to answer exam questions on **collaboration**.

You must be able to:

- explain how **collaboration** 协作 and diverse perspectives improve a solution and reduce **bias** 偏见
- apply **pair programming** 结对编程 (a driver and a navigator)
- describe giving and receiving constructive **feedback** 反馈
- explain why consulting **users** 用户 helps a program meet real needs

1 Worked examples

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

■ Why collaborate

A team with **diverse perspectives** spots more problems, produces better solutions, and reduces **bias** that one person might miss.

■ Pair programming

Two people share one workstation: the **driver** types the code, and the **navigator** reviews it and suggests direction. They swap roles regularly.

■ Feedback and users

Constructive feedback during development catches issues early; consulting **users and stakeholders** keeps the program aimed at real needs.

2 Practice

2.1 State one benefit of collaboration when developing a program. [1]

2.2 Describe the two roles in pair programming. [2]

2.3 State why consulting users helps a program. [1]

3 Exam-style questions

3.1 In pair programming, the person who types the code is the [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** navigator
B driver
C tester
D manager

3.2 Diverse perspectives in a team help to reduce [1]

- | | |
|---|---|
| A | B |
| C | D |
- A** speed
B bias
C cost
D memory use

3.3 A team builds an app without asking any users for input.

- (a) State one risk of doing this. [1]
(b) State one collaboration practice that would help. [1]
(c) State one benefit of that practice. [1]