

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2022/2023

COURSE NAME

COMPUTER GAMES

DEVELOPMENT

COURSE CODE

BIM 33103 .

PROGRAMME CODE

BIM

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EXAMINATION

DATE

JULY / AUGUST 2023

DURATION

3 HOURS

INSTRUCTION

1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS CONDUCTED VIA CLOSED

BOOK.

3. STUDENTS ARE **PROHIBITED**TO CONSULT THEIR OWN
MATERIAL OR ANY EXTERNAL
RESOURCES DURING THE FINAL
EXAMINATION CONDUCTED

VIA CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 Questions Q1(a) - Q1(d) are based on Figure Q1.

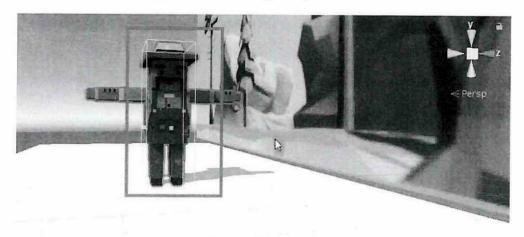


Figure Q1

- (a) Identify a Unity component used to avoid the game character from going through the background image in Figure Q1.

 (2 marks)
- (b) List **THREE** (3) actions to apply the Unity component identified in Q1(a). (6 marks)
- (c) Write a Unity code to make the game character in **Figure Q1** jump at the start of the game.

 (6 marks)
- (d) Explain FOUR (4) steps in Unity to prevent the game character in Figure Q1 from double-jumping. (8 marks)
- Q2 Questions Q2(a) Q2(c) are based on the Unity code in Figure Q2.

```
void Update() {
  if (Input.GetKeyDown(KeyCode.Space))
  {
  playerRb.AddForce(Vector3.up * 10, ForceMode.Impulse); }
}
```

Figure Q2

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2

(a) Discuss TWO (2) purposes of ForceMode.Impulse command in Figure Q2.

(6 marks)

(b) Explain **TWO (2)** steps to increase the gravity and player jumping force in Unity code in **Figure Q2**.

(6 marks)

(c) Write the Unity code for the answer in Q2(b).

(8 marks)

Q3 Questions Q3(a) - Q3(c) are based on the game interface in Figure Q3.



Figure Q3

(a) Propose FIVE (5) types of screens appropriate for the game interface in Figure Q3.

(15 marks)

(b) Illustrate **THREE** (3) storyboards for isometric view projection of the game sample in **Figure Q3** using 3D third-person view gameplay style.

(15 marks)

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3

(c) Discuss TWO (2) online marketing strategies for the game sample in Figure Q3. (8 marks)

- END OF QUESTIONS -

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4

