



**UNIVERSITI TUN HUSSEIN ONN
MALAYSIA**

**FINAL EXAMINATION
SEMESTER I
SESSION 2022/2023**

COURSE NAME : 3D CHARACTER ANIMATION

COURSE CODE : DAG 21303

PROGRAMME CODE : DAG

EXAMINATION DATE : FEBRUARY 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 EXAMINATION
CONDUCTED VIA CLOSED BOOK

THIS ANSWER PAPERS CONSISTS OF **FOUR (4)** PAGES

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PART A

- Q1** (a) Briefly explain 3D character animation. (4 marks)
- (b) Explain the following 3D graphics principles: (6 marks)
- (i)
 - (ii)
 - (iii)
- (c) (i) Rigging is often referred to as one of the most difficult subjects in 3D animation. (4 marks)
- (ii) Briefly explain the important of rigging in 3D character animation. Explain what is the **TWO (2)** major guidelines for Rigging development. (6 marks)
- Q2** (a) The process involved in 3D animation consists of pre-production, production and post-production process. List **FIVE (5)** activities involved in preproduction process. (5 marks)
- (b) Explain **THREE (3)** activities in production process (6 marks)
- (c) Explain **THREE (3)** benefits of 3D character modeling for allows the creation of unique, realistic, and detailed visual content. (9 marks)
- Q3** (a) Define what is blocking in 3D character animation. (2 marks)
- (b) Differentiate between *Inset* and *Extrude* in 3D Blender application software. (4 marks)

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(c) Explain in detail what is Texturing 3D models in 3D character animation. (6 marks)

(d) Briefly explain what is Baking in 3D character animation (8 marks)

Q4 Figure Q4(1) shows the perspective view of the ortographic object.

(a) Sketch the top view (z-axis), (6 marks)

(b) left view (x-axis) of the object (6 marks)

(c) front view (y-axis) (8 marks)

PART B

Q5 In general, 3D character animation is the imporant process of creating nature-visual perspective of human or object. Therefore, it is one of the easiest ways to grab the users attention and convert them into the real 3D animation. Explain in detail **EIGHT (8)** important steps to create 3D character animation. (20 marks)

-END OF QUESTIONS-

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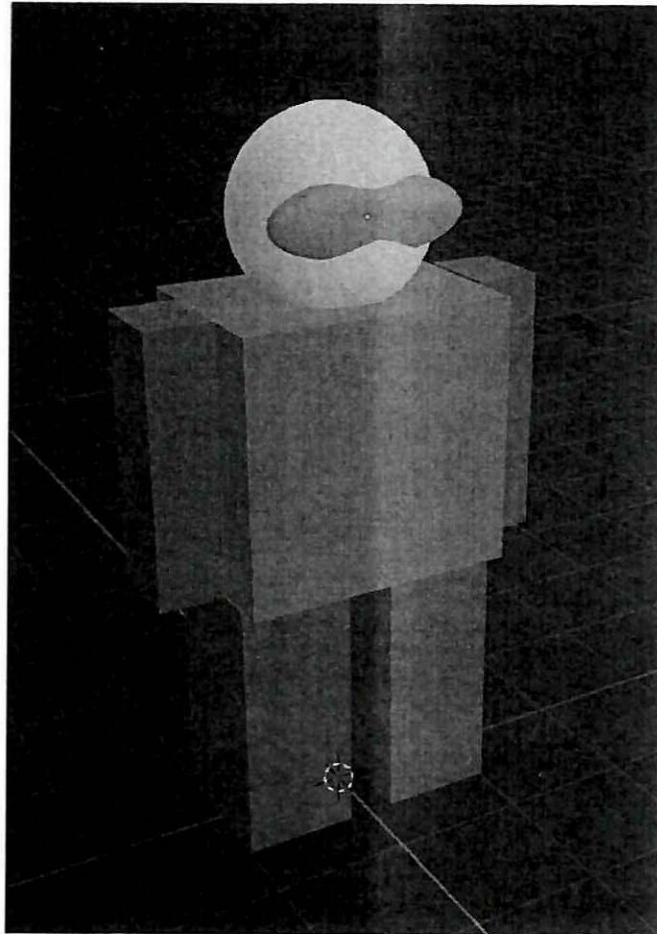


Figure Q4(1)

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