



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2023/2024

- COURSE NAME : COMPUTER ANIMATION
- COURSE CODE : BIM 20703
- PROGRAMME CODE : BIM
- EXAMINATION DATE : JULY 2024
- DURATION : 3 HOURS
- INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

CONFIDENTIAL

TERBUKA

Q1 Questions **Q1(a)** - **Q1(d)** are based on **Figure Q1.1**.

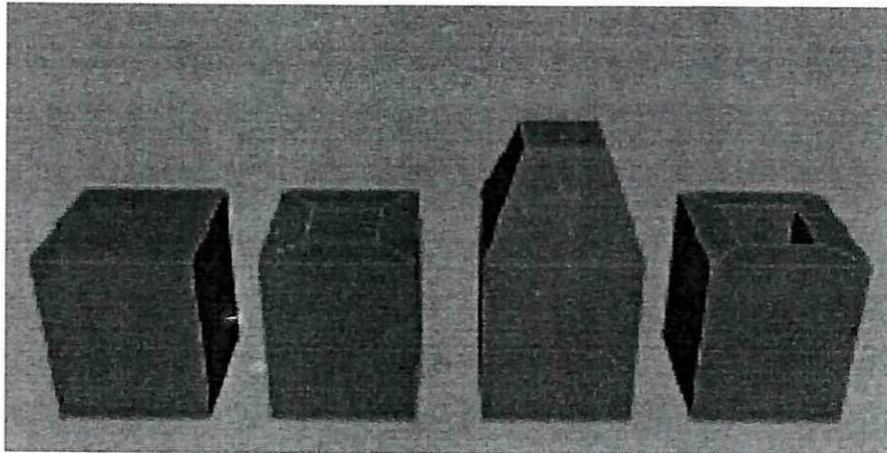


Figure Q1.1

- (a) Identify the type of polygon modeling in **Figure Q1.1**. (5 marks)
- (b) Explain **TWO (2)** benefits of the polygon modeling identified in **Q1(a)**. (8 marks)
- (c) Draw **ONE (1)** prop based on polygon modeling in **Figure Q1.1**. (5 marks)
- (d) Discuss **TWO (2)** differences between Primitive Modeling and From-Scratch Modeling techniques. (8 marks)

Q2 Questions **Q2(a)** - **Q2(c)** are based on **Figure Q2.1**.

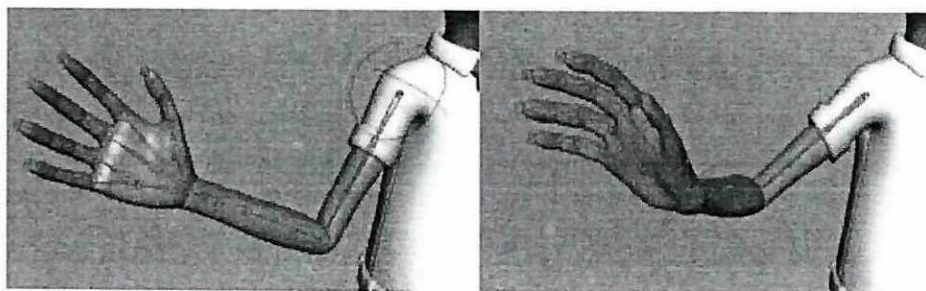


Figure Q2.1

- (a) Suggest **THREE (3)** types of skeleton joints appropriate for character articulation in **Figure Q2.1**.
(9 marks)
- (b) Sketch **TWO (2)** full-body 3D models if Smooth Skinning Deformer is applied to the character in **Figure Q2.1**.
(10 marks)
- (c) Explain **THREE (3)** animation techniques suitable for the characters proposed in **Q2(b)**.
(9 marks)

Q3 Questions **Q3(a)** - **Q3(c)** are based on **Figure Q3.1**.

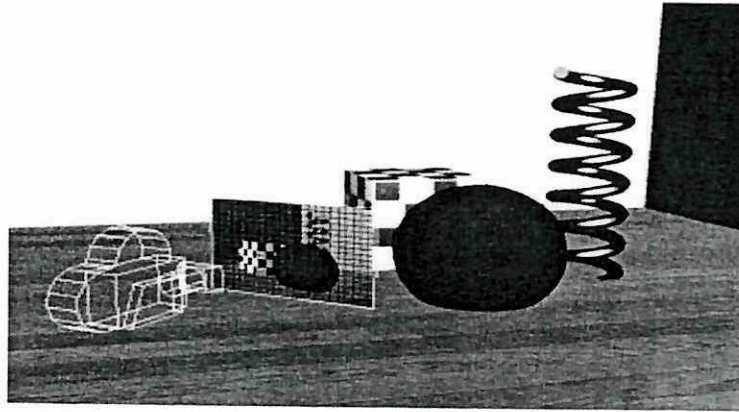


Figure Q3.1

- (a) Define the meaning of rendering technique in **Figure Q3.1**.
(4 marks)
- (b) Explain **SIX (5)** basic rendering workflow for the example in **Figure Q3.1**.
(12 marks)
- (c) Illustrate **TWO (2)** storyboards to render the 3D objects in **Figure Q3.1** using Two-Point Lighting and Three-Point Lighting techniques respectively.
(10 marks)

- END OF QUESTIONS -