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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION  
SEMESTER II  
SESSION 2022/2023

COURSE NAME : SOFTWARE ENGINEERING

COURSE CODE : BIT 10103

PROGRAMME CODE : BIT

EXAMINATION DATE : JULY/AUGUST 2023

DURATION : 3 HOURS

INSTRUCTION : 1. ANSWER ALL QUESTIONS

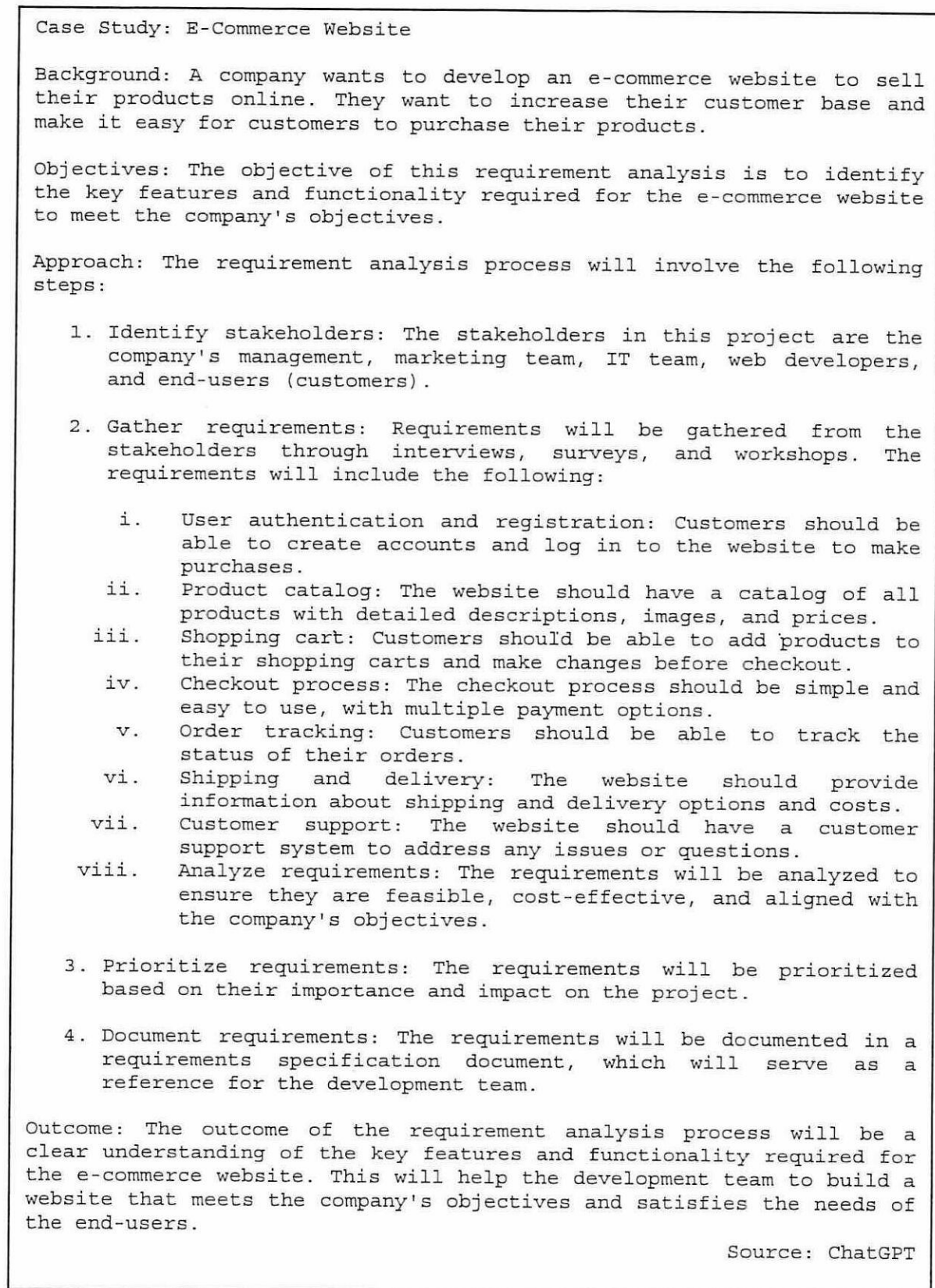
2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**.

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

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

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**Q1** Answer Q1(a)- Q1(d) based on **Figure Q1**.**Figure Q1**

- (a) Identify **TWO (2)** user requirements. (4 marks)
- (b) Identify **TWO (2)** system requirements. (4 marks)
- (c) Suggest **FOUR (4)** non-functional requirements for the proposed system. (8 marks)
- (d) Draw a context diagram. (16 marks)
- (e) Draw a use case diagram. (20 marks)
- Q2** Draw the architectural design for a hotel reservation system with **THREE (3)** components. (12 marks)
- Q3** State **FOUR (4)** typical software maintenance problems. (8 marks)
- Q4** Calculate the the estimated effort required to develop a simple software system with 5000 lines of code using Basic COCOMO based on constant tuning coefficient and exponent. (8 marks)

**-END OF QUESTIONS -**