

KOLEJ UNIVERSITI TUNKU ABDUL RAHMAN

CENTRE FOR PRE-UNIVERSITY STUDIES

ACADEMIC YEAR 2019/2020

DECEMBER EXAMINATION

FPIT1053 MANAGEMENT INFORMATION SYSTEM

TUESDAY, 10 DECEMBER 2019

TIME: 9.00 AM – 11.00 AM (2 HOURS)

FOUNDATION IN ACCOUNTING
FOUNDATION IN BUSINESS

Instructions to Candidates:

1. This question paper consists of **FOUR** questions.
2. Answer **ALL** questions in the answer booklet(s) provided and follow all the instructions stated on the answer booklet(s).
3. Write in dark blue or black pen.
4. Do not use staples, paper clips, highlighters, glue or correction fluid.

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Answer ALL questions.

- Q1. "System planning typically starts with a system request, followed by a preliminary investigation, which includes a feasibility study, system constraints and others. The preliminary investigation concludes with a report to the management."

Answer the following questions by referring to the above statement.

- (a) Provide a definition for system. (2 marks)
- (b) Discuss **FIVE (5)** reasons for system request. (10 marks)
- (c) Identify the **FOUR (4)** types of feasibility studies that are used to access the proposed system. (4 marks)
- (d) Provide any **FOUR (4)** constraints during the development of a system. (4 marks)
- (e) Suggest **FIVE (5)** contents that are included in the preliminary investigation report. (5 marks)

[Total: 25 marks]

- Q2. (a) Answer the following questions.

- (i) What is an Entity Relationship (ER) diagram and what is its purpose? (5 marks)
- (ii) Several assumptions are given below. Draw an ER diagram to show the entities and relationships for a library system:
- A library has many books.
 - Each book has a unique ISBN number, a title and one or more authors.
 - A borrower has a name and ID code.
 - Each borrower could borrow one or many books.

(10 marks)

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Q2. (Continued)

- (b) Figure 2.0 is the Diagram-0 Data Flow Diagram for a food ordering system. Write the most appropriate answer based on the scenario. Your answer must be arranged in order and numbered in the answer booklet.

Scenario A:

A customer places an order through a system. The order will be processed and forwarded to the kitchen and saved in the system. The updated inventory details can be retrieved or updated into an inventory file after an order is processed. The bill is generated for customers once the order has been processed. Some reports are manipulated by managers when necessary. An inventory order will be issued by a manager through the system. The corresponding inventory order will be sent out to the suppliers when necessary and the inventory details will be updated in the inventory file.

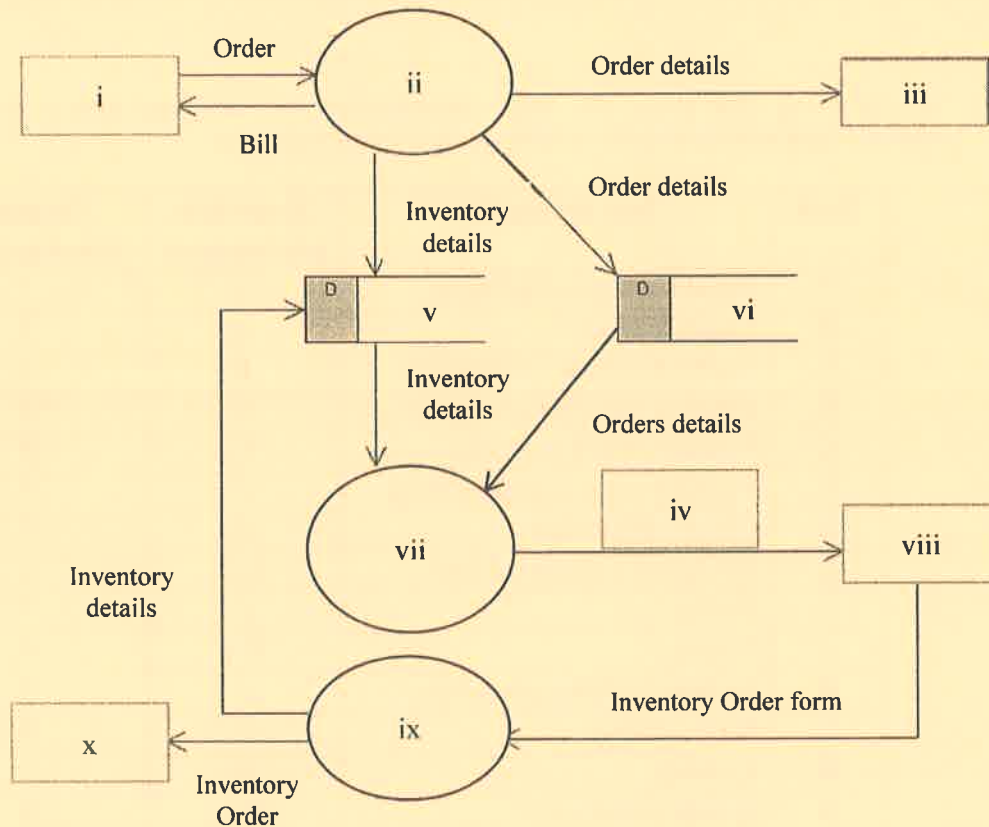


Figure 2.0

(10 marks)
[Total: 25 marks]

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- Q3. (a) A system analyst said, "No system can be successful without a proper training." Answer the following questions by referring to the statement above.
- (i) Discuss the **FOUR (4)** major elements and relevant factors for training. (8 marks)
 - (ii) Identify any **THREE (3)** possible training sources. (3 marks)
 - (iii) Briefly describe any **TWO (2)** negative impacts in lacking a proper training at the workplace. (4 marks)
- (b) The Joint Application Development (JAD) is the most popular fact-finding technique that brings users into the development processes as active participants. Identify and describe the **FIVE (5)** JAD participants and their roles respectively, except users. (10 marks)
[Total: 25 marks]

- Q4 (a) The following table shows the tasks, dependencies, and estimated time a project manager needs to input a basic plan for a software development project.

Task	Task description	Immediate predecessors	Estimated Duration (week)
A	Establish project objectives	-	2
B	Feasibility study	A	3
C	Establish system requirements	B	5
D	Establish specification reports	C	6
E	Develop project prototype	C	4
F	Project management paperwork	E	5
G	Design system flow	D	7
H	Purchased software package	E, G	4
I	Coding	C	7
J	Testing	F, I	8
K	Perform In-House procedures	J	4
L	Implementing	J	5
M	Training	H	2
N	System maintenance	K, L	6

- (i) What is a PERT chart? (1 mark)
 - (ii) Work out a PERT chart for the project above. (14 marks)
 - (iii) Use the answer in **part (ii)** to calculate the critical path of the project. (2 marks)
- (b) Identify and describe the **FOUR (4)** tasks that can be performed by a project manager. (8 marks)
[Total: 25 marks]