

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I **SESSION 2018/2019**

COURSE NAME

: DECISION SUPPORT SYSTEM

COURSE CODE

: BIT 30303

PROGRAMME CODE : BIT

EXAMINATION DATE : DECEMBER 2018 / JANUARY 2019

DURATION

: 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

Q1	(a)	Define the Decision Support System (DSS).	(4 marks)	
	(b)	Describe TWO (2) common types of model in DSS analysis.	(4 marks)	
Q2	(a)	Describe each phase of Simon's model.	(8 marks)	
	(b)	Given the following scenario:		
		You are about to buy a second-hand car. What are the fact you need to be considered.	cors that	
		From the above scenario, describe your decision making process using Simon's model.		
		model.	(12 marks)	
Q3	(a)	Define user interface.	(2 marks)	
	(b)	Describe TWO (2) types of user interface.	(4 marks)	
	(c)	Explain THREE (3) risk factors that may affect the DSS implementation	n process. (6 marks)	
Q4	(a)	Define the Group Decision Support System (GDSS).	(4 marks)	
	(b)	Describe TWO (2) disadvantages of working in group.		

(c) Explain how collaborative computing support technologies using Time/Place Communication framework.

(12 marks)

(4 marks)



Q5 Given scenario in Figure Q5, answer Q5(a) to Q5(c).

Jenny is a writer of romance novels. A movie company and a TV network both want exclusive rights to one of her most popular works. If she signs with the network, she will receive a single lump sum, but if she signs with the movie company, the amount she will receive depends on the market response to her movie. What should she do?

The information of payouts and probabilities as follows;

- Movie company Payouts
 - o Small box office \$200,000
 - o Medium box office \$1,000,000
 - Large box office \$3,000,000
- TV Network Payout
 - Flat rate \$900,000
- Probabilities
 - o P(Small Box Office) = 0.3
 - o P(Medium Box Office) = 0.6
 - o P(Large Box Office) = 0.1

Figure Q5

(a) Identify the decisions (objectives), uncertain events (criteria), and alternatives (choices).

(6 marks)

(b) Construct the decision table for Jenny.

(6 marks)

(c) Draw a decision tree based on the answer in Q5(b).

(8 marks)

- END OF QUESTION -

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