



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2021/2022

COURSE NAME : AVIATION ECONOMY AND
MANAGEMENT

COURSE CODE : BDU 30202

PROGRAMME CODE : BDC

EXAMINATION DATE : JANUARY / FEBRUARY 2022

DURATION : 2 HOURS

INSTRUCTION : 1.ANSWERS **ONE (1)** QUESTIONS IN **PART A**
2.ANSWERS **ALL** QUESTIONS IN **PART B**
3.THIS FINAL EXAMINATION IS A
PHYSICAL ASSESSMENT AND
CONDUCTED VIA CLOSE BOOK.

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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PART A

- Q1** (a) Describe FIVE (5) roles of a manager in the organization based on Henry Mintzberg Theory. (10 marks)
- (b) SULAM program was successfully conducted on December 2021. Distinguish FIVE (5) of the element of Theory X and Theory Y proposed by Douglas McGregor that exhibited by your friends during the execution of the program. (10 marks)
- (c) State FIVE (5) Principles of Management proposed by Henry Fayol. (5 marks)
- Q2** (a) There are many types of aircraft in the world. Describe FIVE (5) aircraft classification according to its range and provide one example of aircraft for each range. (10 marks)
- (b) Kuala Lumpur International Airport (KLIA) able to conduct Hub and Spoke model. Describe the definition of Hub and Spoke Model and Point to Point Model. Give your comments on the feasibility of Point to Point Model to be implemented in KLIA. (15 marks)

PART B

- Q3** (a) Define these terms:
(i) Catchment area
(ii) Transfer passenger
(iii) Transit passenger
(iv) Traffic hub
(v) Airport Collaborative Decision Making (CDM) (10 marks)
- (b) These data are obtained from a series of activities carried out during the execution of a simple project:
(i) Construct the network diagram for the data given in **Table Q3(b)**
(ii) Find the minimum overall project completion time.
(iii) Calculate the float time for each activity and based on the calculation, identify the critical path.
(iv) Based on your answers in **Q3(b)(iii)**, analyze the effect on the project if the completion time of activity G is increased by two days. Justify your answer (15 marks)



- Q4** (a) Explain the definition of residual risk. Discuss the relationship between residual risk, acceptable risk and unidentified risk. (4 marks)
- (b) Economic development in Malaysia has developed rapidly. Explain TWO (2) reasons why Malaysia is not categorized as a socialism economic country and TWO (2) strategies of Malaysia economic model facing the Pandemic of COVID-19. (8 marks)
- (c) Many safety improvements have been made to aircraft over the years as a lesson learned from several major crashes. Describe FOUR (4) examples of safety improvements made to aircraft over the years. (8 marks)
- (d) An instrument landing system (ILS) enables pilots to conduct an instrument approach landing if they are unable to establish visual contact with the runway. Describe and illustrate the principle of operation for ILS. (5 marks)
- Q5** (a) Socialism economy is one of the economy system in the world
- (i) Explain the definition of Socialism economy
- (ii) List FIVE (5) benefits and FIVE (5) criticism for the socialism type of economy. (12 marks)
- (b) The fixed costs for producing 20,000 navigator panel is RM20,000 a year. The variable costs are RM2.50 for materials, RM3.00 for labor and RM 0.50 for overhead cost respectively.
- (i) If the selling price of each navigation panel is RM11.00, calculate how many units to sell to reach break-even point.
- (ii) Based on your answers in **Q5(b)(i)**, estimate how many units to sold to generate RM10,000 profit.
- (iii) Plot the break even graph for this sale and costs.
- (iv) Identify THREE (3) actions that can be taken in order to reduce the breakeven point and increase profits. (13 marks)

-END OF QUESTIONS -

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FINAL EXAMINATION

SEMESTER / SESSION : SEM I/2021/2022 PROGRAMME : BDC
COURSE : AVIATION ECONOMY AND MANAGEMENT COURSE CODE : BDU30202

Table Q3(b) Aircraft Preliminary Design Activities

Activity	Predecessor Activity	Duration (days)
A	-	2
B	A	8
C	A	10
D	B	6
E	B	3
F	C	3
G	C	7
H	D,F	5
I	E	2
J	G	8