UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER I
SESSION 2018/2019

COURSE NAME	:	AVIATION ECONOMY AND MANAGEMENT
COURSE CODE	:	BDU 30202
PROGRAMME CODE	:	BDC
EXAMINATION DATE	:	DECEMBER 2018 / JANUARY 2019
DURATION	:	2 HOURS
INSTRUCTION	:	ANSWERS **FOUR (4)** QUESTIONS ONLY

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

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Q1 (a) Describe 4 roles of a manager in the organization.

(8 marks)

(b) List 5 primary functions of management as proposed by Henry Fayol.

(5 marks)

(c) Briefly explain these Principles of Management proposed by Henry Fayol by providing appropriate example.

(12 marks)

Q2 (a) Aircraft can be classified according to its type, service and range. Classify the aircraft based on its range and provide one example of aircraft for each range.

(10 marks)

(b) Based on airline's central base of operations, compare 5 benefits of point to point model with hub & spoke model.

(15 marks)

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:

Table 1: 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

(i)   Construct the network diagram for the data given in Table 1.

(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.

(15 marks)

Q4   (a)   Explain residual risk and discuss the relationship between it with acceptable risk and unidentified risk.

(5 marks)

(b)   Identify 5 types of major insurance covered for aviation liability.

(5 marks)

(c)   Many safety improvements have been made to aircraft over the years were the results of lessons learned from major crashes. Recommend 2 examples of safety improvements made to aircraft over the years.

(10 marks)

(d)   An instrument landing system (ILS) enables pilots to conduct an instrument approach to landing if they are unable to establish visual contact with the runway. Illustrate the principle of operation for ILS.

(5 marks)

Q5   (a)   List 5 advantages and critism for the socialism type of economy.

(10 marks)

(b)   The fixed costs for producing 30,000 navigator panel are RM30,000 a year. The variable costs are RM2.20 for materials, RM4.00 for labor and RM 0.80 for overhead cost.

(i)   If the selling price of each navigation panel is RM12.00, calculate how many units to sell to reach break-even point.

(ii)   Based on your answers in Q5(b)(i), estimate how many units should be sell to generate RM10,000 profit.

(iii)   Plot the break even graph for this sale and costs.

(iv)   Recommend 1 action that can be taken in order to reduce the breakeven point and increase profits.

(15 marks)

-END OF QUESTIONS –

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