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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
(ONLINE)  
SEMESTER I  
SESSION 2020/2021**

COURSE NAME : AVIATION ECONOMY AND  
MANAGEMENT  
COURSE CODE : BDU 30202  
PROGRAMME CODE : BDC  
EXAMINATION DATE : JANUARY/FEBRUARY 2021  
DURATION : 3 HOURS  
INSTRUCTION : ANSWERS ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1** (a) Describe FOUR (4) roles of a manager in the organization based on Henry Mintzberg Theory (8 marks)
- (b) Differentiate the element of Theory X and Theory Y proposed by Douglas McGregor. (5 marks)
- (c) A study shows that personal difficulties like life-changing situations, family problems, health issues, urgent personal problems, and emotional difficulties are inevitable to be encountered by employees. Such issues, when not given much attention, would directly affect the airline operations for lack or a limited number of available employees. Solve the issues highlighted using Principles of Management proposed by Henry Fayol. State and justify FOUR (4) principles for your solution. (12 marks)
- Q2** (a) There are many types of aircraft:  
(i) Describe FIVE (5) aircraft classification according to its range.  
(ii) Provide one example of aircraft for each range. (10 marks)
- (b) Based on the airline's central base of operations:  
(i) Describe the definition of Hub and Spoke Model and Point to Point Model  
(ii) Explain FIVE (5) benefits of Hub and Spoke Model as compared to Point to Point Model. (15 marks)
- Q3** (a) Define these terms:  
(i) Catchment area  
(ii) Transfer passenger  
(iii) Transit passenger  
(iv) Airport Collaborative Decision Making (CDM) (8 marks)
- (b) Socialism economy is one of the economic systems in the world. Explain the definition of Socialism economy and TWO (2) disadvantages of the system. (4 marks)
- (c) 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(c)**  
(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. (13 marks)

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- Q4** (a) Explain the definition of residual risk. Discuss the relationship between residual risk, acceptable risk and unidentified risk. (5 marks)
- (b) The Malaysia International Aerospace Centre (MIAC), Subang is one of the crucial locations in the aerospace and aviation cluster of the second National Aerospace Industry Blueprint 2030. A few project developments were already completed, and a few are still ongoing.
- (i) List TWO (2) completed projects.
  - (ii) Interpret THREE (3) positive effects on the aviation industry in the surrounding vicinity. Support your explanation with tables or figures (8 marks)
- (c) 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 the break-even point.
  - (ii) Based on your answers in **Q5(b)(i)**, estimate how many units to sell to generate RM10,000 profit.
  - (iii) Plot the break-even graph for this sale and costs. (7 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. Explain and sketch the principle of operation for ILS. (5 marks)

-END OF QUESTIONS -

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**Table Q3(c) 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

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