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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : AVIATION ECONOMY AND
MANAGEMENT

COURSE CODE : BDU 30202

PROGRAMME CODE : BDC

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION : 2 HOURS

INSTRUCTION : ANSWERS **FOUR (4)** QUESTIONS
ONLY

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

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- Q1** (a) Management is the process of achieving goals and objectives effectively and efficiently through and with the people.
- (i) Explain briefly the roles of efficiency and effectiveness in management.
 - (ii) Differentiate the element of Theory X and Y proposed by Douglas McGregor. (10 marks)
- (b) State five (5) aeronautical services provided by Fixed Based Operator. (5 marks)
- (c) Differentiate between low-cost carrier and full-service carrier based on their operation, product, service, strategy and distribution characteristics. (10 marks)
- Q2** (a) Define the following managerial skills:-
- (i) Conceptual skills.
 - (ii) Interpersonal skills.
 - (iii) Technical skills. (6 marks)
- (b) These data are obtained from a series of activities carried out during the execution of a simple project:

Table Q2: Aircraft Preliminary Design Activities

Activity Number	Start Node	End Note	Completion time(weeks)
1	1	2	2
2	1	3	4
3	2	4	7
4	3	4	3
5	3	5	7
6	4	5	3
7	5	6	4
8	4	6	6
9	6	7	2
10	4	7	7

In addition to the above information, activity 5 cannot start until three weeks after the end of activity 1.

- (i) Construct the network diagram for the data given in Table Q2.
- (ii) Find the minimum overall project completion time.

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- (iii) Calculate the float time for each activity and based on the calculation, identify the critical path.
- (iv) Based on your answers in Q2(b)(iii), analyze the effect on the project if the completion time of activity 4 is increased by two weeks.

(14 marks)

- (c) Define these terms:
 - (i) Catchment area.
 - (ii) Transfer passenger.
 - (iii) Transit passenger.
 - (iv) Traffic hub.
 - (v) Airport Collaborative Decision Making (CDM).

(5 marks)

- Q3** (a) Suggest four (4) challenges to consider in operating an airport.

(8 marks)

- (b) Freedoms of The Air are referring to the type of international services permitted between two or more countries. Apply three (3) type of the Freedoms of The Air by giving appropriate examples of the airlines operating and illustrate the home country and the airline's destination.

(10 marks)

- (c) Explain the concept of the hub-and-spokes system.

(7 marks)

- Q4** (a) Propose five (5) common factors of airside vehicle movements that causes to the accidents at the airside.

(5marks)

- (b) Identify five (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 two (2) examples of safety improvements made to aircraft over the years, as the result of lessons learned from major crashes.

(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)

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- Q5** (a) Capitalism is the social system which now exists in most countries of the world.
- (i) Define capitalism
 - (ii) State four (4) benefits and 4 limitations of this system.
- (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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