



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2016/2017**

COURSE NAME : AVIATION ECONOMY &
MANAGEMENT

COURSE CODE : BDU 30202

PROGRAMME : 3 BDC

EXAMINATION DATE : JUNE 2017

DURATION : 2 HOURS

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

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

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 managers in the organization.
- (ii) List four (4) principles of Management as described by Henri Fayol.

(10 marks)

(b) State five (5) management functions and arrange the priority based on its importance to the different level of managers.

(8 marks)

(c) Outline the relationship between Full Service Carrier and Low Cost Carrier with regards to the tiers in network carriers.

(7 marks)

Q2 (a) State **FIVE** differences between Low Cost and Full Service Carriers.

(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 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 1.
- (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.
- (15 marks)

- Q3**
- (a) Illustrate the stages of the passenger journey from the origin airport to the destination airport.
(5 marks)
 - (b) Gives five (5) examples in airport security changes after the 911 incidents.
(5 marks)
 - (c) Outline four (4) risks that can be covered by insurance and provide real case examples for each risk.
(10 marks)

- Q4**
- (a) Explain the functions of International Civil Aviation Organization (ICAO) and gives TWO countries that is a member of ICAO.
(5 marks)
 - (b) Calculate the total direct operating cost of a commercial transport based on Liebeck's equation for the charge based on the values given in Table 2, assuming that there are two flight crew and eight cabin crew on this flight.
(16 marks)

Table 2: Detail elements in aircraft direct cost

No	Items	Quantity
1	Number of trip	3
2	Airframe weight	60 tonnes
3	Gross weight	78 tonnes
4	Number of trips	2
5	Number of engine	2
6	Thrust per engine	120 kN
7	Airframe cost	1 500 000 USD
8	Period	15 years
9	Residual	0.1
10	Airframe spares	0.06
11	Engine spares	0.23
12	Interest	130 000 USD
13	Block hours	4 hours

- (c) Define the following terms:-
 - (i) Aviation law
 - (ii) Sovereignty

(4 marks)

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