



# PIONEER INTERNATIONAL UNIVERSITY

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## UNIVERSITY EXAMINATIONS

ACADEMIC YEAR: 2021/2022

UNIT NAME: AIRPORT OPERATIONS AND CONTROL

SEMESTER: SEP-DEC 2021

UNIT CODE: AVBM 305

DATE: DECEMBER 2021

TIME: 2 HOURS

*Instructions: Answer SECTION A (Compulsory) and Any Other Two Questions*

### QUESTION ONE:

*Answer all questions.*

1. Outline:

- a.
  - i. Five general characteristics of an airport. (5 marks)
  - ii. Six factors that will contribute to the predicted doubling of passenger volumes globally in the next twenty years. (6 marks)
  - iii. Three needs for air transportation. (3 marks)
  - iv. Four providers of air transportation. (4 marks)
- b.
  - i. Explain the effect of technology advancement as applies to the airport. (2 marks)
  - ii. Describe the three areas of the airport. (3 marks)
  - iii. With the aid of a flow chart show the Interrelationships between the Airport, Airlines, and Passengers (4 marks)
- c. Outline three arrangements with regards to the day to day responsibility of airport management. (3 marks)

### SECTION B:

*Answer any two questions.*

#### Question 2:

2.

- a. Describe the need for standardization in the aviation industry. (3 marks)
- b. Describe the role of the International Civil Aviation Organization in civil aviation. (4marks)
- c. Describe the two types of costs incurred by airports. (8marks)

**Question 3:**

- 3.
- a. Differentiate between aeronautical and non-aeronautical revenues .(6 marks)
  - b. Describe four steps of the Airport Master Planning process. (4 marks)
  - c. Discuss public consultation in the airport master plan. (5 marks)

**Question 4:**

- 4.
- a. Explain three key success factors within an airport. (6 marks)
  - b. Discuss the airport manourvering area under the following titles:
    - i. Runway definition
    - ii. Runway orientation
    - iii. Number of runways
    - iv. Secondary runway.
    - v. Length of the runway (6 marks).
  - c. With reference to airport visual aids. (3 marks)
    - i. Name three categories
    - ii. Give three purposes