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**PRESIDENCY
UNIVERSITY**
BENGALURU

School of Management

Mid - Term Examinations - November 2024

Semester: III

Date: 06-11-2024

Course Code: BAV3023

Time: 11:45am - 01:15pm

Course Name: Air Traffic Control

Max Marks: 50

Program: BBA Aviation Management

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Qx2M = 10M

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|----------|--|----------------|-----------------|------------|
| 1 | List two primary functions of an Air Traffic Control (ATC) system. | 2 Marks | Remember | CO1 |
| 2 | What is the main purpose of a radar system in ATC? | 2 Marks | Remember | CO1 |
| 3 | Define "separation" in the context of ATC. | 2 Marks | Remember | CO1 |
| 4 | Name two types of ATC facilities. | 2 Marks | Remember | CO1 |
| 5 | What is the role of a flight data processor in an ATC system? | 2 Marks | Remember | CO1 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|----------|---|-----------------|-------------------|------------|
| 6 | Explain the main components of a typical ATC system and explain how they work together to ensure safe and efficient air traffic management. | 10 Marks | Understand | CO1 |
|----------|---|-----------------|-------------------|------------|

OR

7 Evaluate the importance of radar systems in modern ATC. Discuss the advantages and limitations of primary and secondary radar systems, and explain how they complement each other. **10 Marks** **Evaluate** **C01**

8 Explain the concept of airspace classification and how it affects ATC procedures. Provide examples of any three different airspace classes and their characteristics. **10 Marks** **Understand** **C02**

OR

9 Compare and contrast the roles and responsibilities of tower controllers, approach controllers, and enroute controllers. How do their functions differ, and how do they collaborate to ensure seamless air traffic flow? **10 Marks** **Analyze** **C02**

10 List at least four sources of information about the weather that the ATC gets. **10 Marks** **Remember** **C01**

OR

11 Evaluate the role of automation in modern ATC systems. Discuss the benefits and potential challenges of increased automation, and explain how it affects the controller's role. **10 Marks** **Evaluate** **C01**

12 Identify the process of handling an aircraft from takeoff to landing, including the transfer of control between different ATC facilities. Explain the key procedures and coordination required at each stage. **10 Marks** **Understand** **C02**

OR

13 Explain the functioning of the TACC (Terminal Airspace Control Center) and the equipment used for its functioning **10 Marks** **Understand** **C02**