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**PRESIDENCY UNIVERSITY**

**Bengaluru**

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| **End - Term Examinations – MAY 2025** |
| **Date:** 22-05-2025 **Time:** 01:00 pm – 04:00 pm |

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| --- | --- | --- |
| **School:** SOM-UG | **Program:** BBA Aviation Management | |
| **Course Code :** BAV3017 | **Course Name:** Airport Operations Advanced | |
| **Semester**: II | **Max Marks**: 100 | **Weightage** :50% |

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| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **41** | **26** | **11** | **11** | **11** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Answer ALL the Questions. Each question carries 2 marks. 10Q x 2M=20M** | | | | |
| **1** | List two key areas classified under the land side operations of an airport | **2 Marks** | **L1** | **CO1** |
| **2** | Define the term "integrated carrier" in the context of air cargo operations | **2 Marks** | **L1** | **CO2** |
| **3** | Identify two types of security zones in an airport according to access restrictions | **2 Marks** | **L1** | **CO3** |
| **4** | Recall two key components of the pre-flight crew briefing process | **2 Marks** | **L1** | **CO4** |
| **5** | State two reasons why baggage handling quality impacts passenger satisfaction | **2 Marks** | **L1** | **CO5** |
| **6** | Mention two examples how aerodrome certification contributes to aviation safety | **2 Marks** | **L2** | **CO1** |
| **7** | Give the main purpose of International Civil Aviation Organization's Annex 17 in aviation security. | **2 Marks** | **L2** | **CO3** |
| **8** | Give an example how weight and balance calculations affect flight safety | **2 Marks** | **L2** | **CO4** |
| **9** | Give two examples of how Unit Load Devices (ULD) improve efficiency in air cargo operations. | **2 Marks** | **L3** | **CO2** |
| **10** | Analyze how artificial intelligence is transforming baggage handling systems in modern airports | **2 Marks** | **L3** | **CO5** |

**Part B**

**Answer ALL the Questions. Each question carries 7 Marks. Total Marks 35M**

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| --- | --- | --- | --- | --- | --- |
| 11 | a | Explain the components of maintaining operational readiness at airports and analyze their importance in ensuring safety and efficiency | 07 Marks | L2 | CO1 |
| Or | | | | | |
| 12 | **a** | Explain the key processes involved in land side operations and describe how they contribute to passenger satisfaction | **07 Marks** | **L2** | **CO1** |

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| 13 | a | Analyze the check-in baggage screening process and evaluate its effectiveness in ensuring aviation security | 07 Marks | L3 | CO3 |
| Or | | | | | |
| 14 | **a** | Analyze the access control systems used for airport buildings and explain how they integrate with the overall security framework | **07 Marks** | **L3** | **CO3** |

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| 15 | a | Explain the flight planning fundamentals and describe how they contribute to flight safety and efficiency | 07 Marks | L2 | CO4 |
| Or | | | | | |
| 16 | **a** | Explain the cruise phase management procedures and describe how flight crews optimize performance during this phase | **07 Marks** | **L2** | **CO4** |

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| 17 | a | Analyze the various types of Unit Load Devices (ULD) used in air cargo operations and evaluate their impact on efficiency and cargo protection | 07 Marks | L3 | CO2 |
| Or | | | | | |
| 18 | **a** | Analyze the documentation requirements in air cargo operations and evaluate how digital transformation is changing these processes | **07 Marks** | **L3** | **CO2** |

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| 19 | a | Explain the flight build process for baggage and describe the key considerations that ensure proper loading and weight distribution | 07 Marks | L2 | CO5 |
| Or | | | | | |
| 20 | **a** | Explain how airports handle baggage during arrivals and reclaim, analyzing the factors that influence first-bag and last-bag performance metrics | **07 Marks** | **L2** | **CO5** |

**Part C**

**Answer any Three Questions. Each question carries 15 marks 3Q x 15M=45M**

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| 21 | a | Explain the safety and security considerations in airport operations, describing how they are integrated into the overall management system. Analyze the regulatory frameworks that govern these aspects and their impact on operational procedures | 15 Marks | L2 | CO1 |

|  |  |  |  |  |  |
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| 22 | a | Explain the safety and security considerations in airport operations, describing how they are integrated into the overall management system. Analyze the regulatory frameworks that govern these aspects and their impact on operational procedures | 15 Marks | L2 | CO1 |

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| 23 | a | Analyze the cargo terminal operations at airports and evaluate how modern design features and automation are improving efficiency. Recommend strategies for further enhancing cargo handling capabilities | 15 Marks | L3 | CO2 |

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| --- | --- | --- | --- | --- | --- |
| 24 | a | Explain the complete journey of baggage through an airport system from check-in to reclaim, including transfer processes. Analyze the challenges in baggage handling and evaluate how modern technologies are addressing these challenges | 15 Marks | L2 | CO5 |