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 **Presidency University**

**Bengaluru**

 **SCHOOL OF MANAGEMENT**

**MAKE-UP EXAMINATION - SEP 2023**

**Course Code**: AVM103

**Course Name**: Airside and Landside Operations

**Program & Sem**: BBA Aviation Management - II Sem

**Date**: 04.10.2023

**Time**: 9.30AM – 12.30PM

**Max Marks**: 100

**Weightage**:50%

 **Instructions:**

1. ***Read the question carefully and answer all the questions***

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each Question carries two marks. (10Qx2M=20M)**

1. Define “Mexico Convention” (C.O.NO 3) [Knowledge]
2. Name a few Operational Facilities available in the airport. (C.O.NO 1) [Knowledge]
3. Define “Annex 14”. (C.O.NO 1) [Knowledge]
4. The crew must determine the airworthiness of the aircraft and address any open issues before \_\_\_\_\_\_\_\_. The term “\_\_\_\_\_\_\_\_” is typically used to describe the interior and exterior inspections of the aircraft, but in a general sense can be used to describe any activity involved with preparing the aircraft for departure. The aircraft inspection is usually divided among the cockpit crew and includes an exterior \_\_\_\_\_\_\_\_\_ examination, interior cockpit setup, and systems checks. (C.O.NO 4) [Knowledge]
5. Recall the key aspects of Maintaining Readiness (C.O.NO 2) [Knowledge]
6. Match the following
7. Tokyo Convention - 1970
8. Hague Convention - 1963
9. Montreal Convention - 1991
10. Mexico Convention - 1971 (C.O.NO 3) [Knowledge]
11. Define Integrated Cargo in general.  (C.O.NO 2) [Knowledge]
12. Once the agent moves the \_\_\_\_\_\_\_\_out of the way, the push-back crew advises the cockpit that the wheel chocks are removed and that it is safe to release the \_\_\_\_\_\_\_\_. The captain acknowledges the release of the parking brake and signals the first officer to call ramp control or ATC for \_\_\_\_\_\_\_\_. (C.O.NO 4) [Knowledge]
13. You can travel with your medication only in your checked baggage. Medication is usually screened by X-ray; however, if a passenger does not want a medication X-rayed, he or she may ask for a visual inspection instead. This request must be made before any items are sent through the X-ray tunnel. Recognize the false term used in the above statement. (C.O.NO 3) [Knowledge]
14. Name the types of runways classified according to their ability to accept aircraft at different degrees of visibility. (C.O.NO 1) [Knowledge]

**Part B [Thought Provoking Questions]**

**Answer all the Questions. Each Question carries TEN marks. (4Qx10M=40M)**

1. On bay, no 25 aircraft parked as halt flt, and all maintenance worked done and the A/C is ready for the base departure, before starting the ground operations the Cockpit crew must carry Pre-Flight check. Being a Cockpit crew explain the Pre- Flight procedure for the base flt. (C.O.NO 4) [Comprehension]
2. With the expected growth in air transportation, we will need to make greater efforts and adopt new measures to continue improving aviation safety. The use of Safety Management Systems (SMS) at airports can contribute to this effort by helping airports detect and correct safety problems before they result in aircraft accidents or incidents. Discuss how does a Safety Management System ensure the safety component in airports? (C.O.NO 1) [Comprehension]
3. Discuss about modern cargo terminal design with examples? (C.O.NO 2) [Comprehension]
4. Once all the ground activities are completed all equipment is removed for a turnaround flight, the aircraft is ready for push back, a tow truck is aligned and the tow bar is connected, explain at what phase the aircraft was, and discuss the Gate Departure procedure for the aircraft.

 (C.O.NO 4) [Comprehension]

**Part C [ Problem Solving Questions]**

**Answer all the Question. Each Question carries Twenty marks. (2Qx20M=40M)**

1. Unlike passengers, who merely require information and directions to flow through all but the largest terminals, freight is passive and must be physically moved from landside to airside and vice versa. The system used to achieve this physical movement will depend on the degree of mechanization to be used to offset personnel costs. Interpret the three types of the mechanism used and how is Cargo Handled within the terminal  (C.O.NO 2) [Application]

1. As an airport operator, if your airport poses a bird strike threat

 a) Illustrate the countermeasures would you take.

 b) Predict if dispersing and expulsion would still be required?

c) Being an airport operator, illustrate how would you be able to take effective action to stop bird threat? (C.O.NO 3) [Application]