



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Cargo Handling

Program: MBA AVM

Course Code: TRAV 2002

Semester: III

Time : 03 hrs.

Max. Marks: 100

Instructions:

**SECTION A
10Qx2M=20Marks**

S. No.		Marks	CO
Q 1	An aircraft unit load device whose airworthiness has not been certified by the appropriate governmental authorities is classified as (a) Aircraft pallet (b) Certified ULD (c) Non-certified ULD (d) Unknown ULD	2	CO1
Q 2	Restrictions in cargo acceptance apply to the nature of goods being shipped and the (a) Shipper's Letter of Instructions (b) Weight and dimensions (c) Terms of Payment (d) Advanced space booking	2	CO1
Q 3	Watertight containers must fulfill the requirements as stated in the IATA Regulations.	2	CO1

	<p>(a) Dangerous Goods</p> <p>(b) Live Animals</p> <p>(c) Time & Temperature Control</p> <p>(d) Both a and b</p>		
Q 4	<p>Eliminating the need to transport paper documents for air cargo shipments</p> <p>by moving to electronic messages is the vision of the industry-wide initiative</p> <p>(a) Cargo iQ</p> <p>(b) E-freight</p> <p>(c) E-communication</p> <p>(d) E-learning</p>	2	CO1
Q 5	<p>The Rate Class is indicating S, and the commodity item number field is indicating N175. What does this mean:</p> <p>(a) The Minimum rate is surcharged 175%</p> <p>(b) The GCR Quantity Rate is surcharged 175%</p> <p>(c) The GCR Normal Rate is surcharged 175%</p> <p>(d) None of the above</p>	2	CO1
Q 6	<p>Baggage forwarded by air freight is known as</p> <p>(a) Unaccompanied baggage</p> <p>(b) Checked in baggage</p>	2	CO1

	(c) Baggage on hold (d) Air cargo		
Q 7	Define Consignee.	2	CO1
Q 8	The weight and volume of a compartment can be better utilized with . (a) High density commodities (b) Low density commodities (c) Combination of high and low density commodities (d) ULD	2	CO1
Q 9	Dangerous Goods classification/division–Class 2 refers to (a) Corrosives (b) Gases (c) Flammable Liquids (d) Toxic and Infectious substances	2	CO1
Q 10	One of the main restrictions regarding the usage of ULD is (a) Shipper (b) Destination (c) Customs restrictions (d) Commodity	2	CO1

SECTION B
4Qx5M= 20 Marks

Q 11	<p>A Boeing 747 with a Take-off Weight of 340290 kgs, Dry Operating Weight of 163339 kgs and Take-off Fuel of 95281 kgs.</p> <p>Calculate the Payload of this flight?</p> <p>(a) 117550 kgs (b) 92345 kgs (c) 110000 kgs (d) 81670 kgs</p>	5	CO2
Q 12	<p>Illustrate some examples of miscellaneous articles and substances included in DGR Class 9.</p>	5	CO2
Q 13	<p>Examine the equipment's required to move and load a ULD.</p>	5	CO2
Q 14	<p>The B747 can accept pallets and containers of various sizes and specifications, such as main deck pallets and containers that are 10, 20 and 40 ft. long. This ability permits interchanging of cargo loads with other cargo carrying aircraft and the lower deck compartments of most wide-body passenger aircraft.</p> <p>Describe the number of positions and type of ULD that can be loaded on B747-400 along with base dimensions (Main Deck and Lower Deck).</p>	5	CO2
<p>SECTION-C 3Qx10M=30 Marks</p>			
Q 15	<p style="text-align: center;">Numerical Question - Part 1 and Part 2</p> <p>Cargo compartment 1 of an aircraft has a maximum volume of 15 m³ and a maximum weight of 3,500 kg.</p> <p>1. What is the maximum weight of a clothing consignment that can be loaded into the compartment?</p> <p>Note the average density for clothing is 120 kg/m³</p> <p>(a) 3,500 kg</p>	10	CO3

	<p>(b) 3,000 kg</p> <p>(c) 2,800 kg</p> <p>(d) 1,800 kg</p> <p>2. What is the maximum weight of a chemicals consignment that can be loaded into the compartment?</p> <p>Note the average density for chemicals is 400 kg/m³</p> <p>(a) 6,000 kg</p> <p>(b) 3,500 kg</p> <p>(c) 3,000 kg</p> <p>(d) 2,500 kg</p>		
Q 16	Analyze the type of movements which can cause the load to shift during flight and suggest securing equipment that may be used.	10	CO3
Q 17	The aviation industry has seen technological advancements over the last few decades. There is no doubt that the digital wave has made it possible to embrace new technologies rather quickly, and offer endless possibilities. Analyze how Meta-verse can transform passenger and cargo transportation experience.	10	CO3
<p>SECTION-D 2Qx15M= 30 Marks</p>			
Q 18	Create a flowchart to illustrate the import and export handling process inside cargo terminal and identify the important documents for obtaining customs clearance.	15	CO4
Q 19	Analyze how innovation led digitalisation is transforming air cargo industry.	15	CO4