

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES
End Semester Examination (Online) – July, 2020

Program: MBA AVM
Subject/Course: Aviation Security & Safety Management
Course Code: TRAV 7003

Semester : II
Max. Marks: 100
Duration : 3 Hours

IMPORTANT INSTRUCTIONS

1. The student must write his/her name and enrolment no. in the space designated above.
2. The questions have to be answered in this MS Word document.
3. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.

	Answer any 5 questions	Marks	COs
Q.1	“The 5M model, for examining and valuing accidents, illustrates the interactions in the complex environment of aviation by intertwined circles”. Discuss.	20	CO1
Q.2	A320, Lisbon Portugal, 2015 On 19 May 2015, an Airbus A319 crew attempted to taxi into a nose-in parking position at Lisbon despite the fact that the APIS, although switched on, was clearly malfunctioning whilst not displaying an unequivocal ‘STOP’. The aircraft continued 6 meters past the applicable apron ground marking by which time it had hit the aerobridge. The marshaller in attendance to oversee the arrival did not signal the aircraft or manually select the APIS ‘STOP’ instruction. The APIS had failed to detect the dark-liveried aircraft and the non-display of a steady ‘STOP’ indication was independently, attributed to a pre-existing system fault. Ground damage events usually do not occur for a single reason but are rather a combination of errors or violations, latent factors and specific circumstances. Discuss.	20	CO2
Q.3	The success of a Safety Management Systems requires cross-department coordination. The intra-company’s regular meetings offer great chances for the brainstorming. It takes time to see the progress.	20	CO3

	Analyze the perception gaps in the SMS execution between frontline employees and their immediate supervisors in the airline industry.		
Q.4	<p>Crew avert fire disaster on flight to Colombo</p> <p>PRESSTRUST OF INDIA COLOMBO, JULY 31</p> <p>A MAJOR incident was averted after alert crew aboard a SriLankan Airlines flight carrying over 200 passengers from Kochi to Colombo extinguished a mid-flight fire triggered by a lithium battery pack, the airline said on Monday.</p> <p>Shortly after the meal service on the 70-minute flight, the cabin crew noticed smoke emanating from an overhead luggage bin.</p> <p>"Crew members aboard flight UL 166 managed to avert a major incident that is believed to have been caused by the ignition of a lithium battery pack or mobile phones in a passenger's hand luggage," the airlines said in a statement.</p> <p>None of the 202 passengers or any of the crew suffered any injuries and the Airbus A330-200 aircraft landed safely at Colombo's Bandaranaike International Airport (BIA) at the scheduled time, the statement said.</p> <p>The flight crew immediately informed air traffic controllers at BIA and the aircraft was met on arrival by dangerous goods experts, firefighters and other safety related personnel. Since the situation was under control, passengers did not require emergency evacuation, it said.</p> <p>SriLankan Airlines has launched an investigation into the incident.</p> <p>From the above can you carry out a safety risk assessment of carrying PEDs having lithium battery packs in hand bags.</p>	20	CO3
Q.5	<p>The airport emergency plan sets forth the procedures for coordinating the response of different airport agencies (or services) and those agencies in the surrounding community that could be of assistance in responding to the emergency. Each airport emergency plan should be a coordinated programme between the airport and the surrounding community.</p> <p>Analyze the process to handle aircraft emergencies at aerodrome.</p>	20	CO4
Q.6	Analyze the steps taken by BCAS to enhance airport security in India.	20	CO4

ANSWERS