UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021/January 2022

Course: IT Application in Aviation Sector   Semester   : I
Program: MBA (AVM)   Duration   : 03 hrs.
Course Code: DSIT7007   Max. Marks: 100

Instructions:

Q. No	Section A (Type the answers in test box)	10Qx2M=20Marks	COs
Q1	Differentiate between "Data" and "Information"?	2 Marks	CO1
Q2	Describe the term "Information Technology"?	2 Marks	CO1
Q3	Name various types of information systems typically used in an airline functioning?	2 Marks	CO1
Q4	Briefly describe, how business information system is instrumental in resolving the crew scheduling process of an airline?	2 Marks	CO2
Q5	Briefly describe THREE faces of IT in an airline functioning?	2 Marks	CO2
Q6	What is SABRE?	2 Marks	CO1
Q7	Write down TWO primary reasons, why airlines want to invest in IT?	2 Marks	CO2
Q8	Write down two main examples of social and information Knowledge Management (KM)?	2 Marks	CO3
Q9	Write down two main characteristics of current era of Knowledge Management (KM)?	2 Marks	CO3
Q10	What do you understand by "high velocity automated decision making"?	2 Marks	CO4
	Section B (Scan and upload)	4Qx5M= 20 Marks	
Q1	Discuss the role of Business Software Alliance (BSA) in ensuring ethical business in IT?	5 Marks	CO3
Q2	Discuss three main reasons why investments in information technology (IT) do not always produce positive results?	5 Marks	CO4
Q3	At the core of gaining competitive advantage through Supply Chain Management (SCM) is Supply Chain Integration (SCI). What steps related to IT application Emirates Airline has initiated to further simplify the inventory management issues?	5 Marks	CO3
Q4	Name the FIVE widely used software for the efficient functioning of Airport Management System?	5 Marks	CO2

	Section C **(Scan and upload)**	**3Qx10M=30 Marks**	
Q1	Briefly discuss the key differences between the conventional Supply Chain Management (SCM) system of conventional Boeing aircraft final assembly line and the SCM system innovated for the Boeing 787 Dreamliner. Also, highlight the use of IT in the SCM system of Boeing 787?	10 Marks	CO3
Q2	Write down the salient features of Airbus Online Services (AOLS)	10 Marks	CO2
Q3	Discuss the role (what he does?) of a "Chief Information Officer" (CIO) in an Airline?	10 Marks	CO2
	Section D **(Scan and upload)**	**2Qx15M= 30 Marks**	
Q1	In the past decade leading aircraft manufacturers (Airbus and Boeing) have shifted their business strategy from "selling aircraft" to "selling aircraft and services". Discuss the role of IT in the preceding statement and substantiate it with suitable examples?	15 Marks	CO2
Q2	"TotalCare" programme of Rolls Royce is a success story and considered a key factor to achieve sustained competitive advantage in its segment. Discuss the role of data analytics and IT in the implementation of "TotalCare"?	15 Marks	CO4