Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2022

Course: Aircraft Electrical System **Semester: VI**
Program: ASE+AVE **Time : 03 hrs.**
Course Code: AVEG 3002 **Max. Marks: 100**

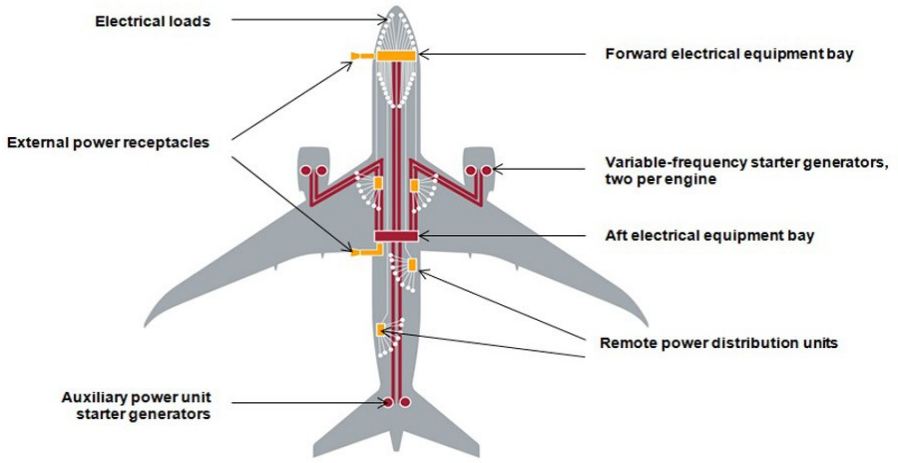
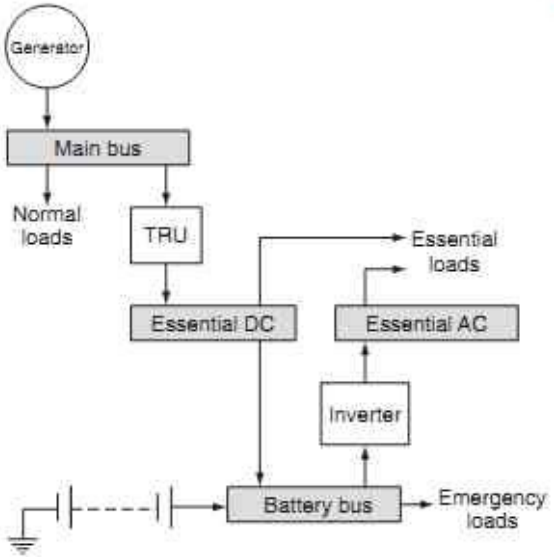
Instructions:

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Discuss the principle of Private Pilot Electrical Systems	**4**	**CO1**
Q 2	How databuses are useful for electrical signal transmissions	**4**	**CO2**
Q 3	How aircraft navigation lights works?	**4**	**CO3**
Q 4	What are the various radio equipment's in the aircraft systems	**4**	**CO4**
Q 5	Describe the function of High tension Coupling	**4**	**CO4**

SECTION B
(4Qx10M= 40 Marks)

Q 6	Describe the principle and operations of Alternators	**10**	**CO2**
Q 7	Discuss the principle and operations of Aircraft DC Generators?	**10**	**CO3**
Q 8	What is the principle of operations of AC generators?	**10**	**CO 4**
Q 9	Discuss each components of the aircraft as mentioned in the schematic diagram.	**10**	**CO4**

			
SECTION-C (2Qx20M=40 Marks)			
Q 10	Describe the distribution of power buses as shown in the Figure below. Discuss the functionality of Batteries. 	**20**	**CO1**
Q 11	Describe in detail, the fundamental principles and working of simple loop generators. Describe the types of generators with the various schematic diagrams.	**20**	**CO 3**