Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Programme Name: B.Tech ASE+AVE Course Name : Aerospace Navigation

Course Name: Aerospace Navigation SystemCourse Code: AVEG 4005Nos. of page(s): 02

Semester : VII Time : 03 hrs Max. Marks : 100

SECTION A [4x5=20]

Type th	e Answers		
S. No.		Marks	CO
Q 1	How latitude and longitude plays a vital role in defining the navigation positional information?	4	CO1
Q 2	Discuss the term HYPERBOLIC NAVIGATION SYSTEM	4	CO2
Q 3	How the surveying occurs using theodolite?	4	CO 3
Q 4	Pen down the principle of Global Positioning System.	4	CO 4
Q 5	What are the principles of Instrument Landing Systems?	4	CO1
	SECTION B		
	[10x4=40]		
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Q 6	Discuss the algorithm for Dead-reckoning navigation system. How DR works for the aircraft movement and how the estimated positions are calculated?	10	CO2
Q 7	Describe the principle of operation for LORAN Navigation system with schematic diagram.	10	CO 3
Q 8	Discuss the principle of VOR with the schematic diagram.	10	CO 3
Q 9	How the pilot describes "Decision Heights"? Describe the principle behind the same.	10	CO 2
	SECTION-C [2x20=40]		
Q 10. D CO 4	escribe the each terms involved in it. How the sensors are useful in obtaining the data ac	equition sy 20	



