Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Term Examination, December 2022

Programme Name: B.Tech GIE **Semester: GIE**
Course Name : UAV Remote Sensing **Time : 3 Hr**
Course Code : PEGI 4007 **Max. Marks : 100**
Nos. of page(s) : 1
Instructions: Draw sketches if necessary.

SECTION A (5Qx4=20)

Attempt all questions

S. No.		Marks	CO
Q1	What is ground station and communication system in data acquisition?	**4**	**CO2**
Q2	What are the payloads and supporting components in data acquisition through UAV?	**4**	**CO3**
Q3	What is Rotary wind and fixed wing UAV ?	**4**	**CO1**
Q4	What are the common sensors and camera being used in data acquisition	**4**	**CO4**
Q5	What is VTOL and LASE?	**4**	**CO4**

SECTION B (4Qx10=40)

Attempt all questions

Q6	Evaluate the merits of drone technology in mapping and monitoring of land surface	**10**	**CO4**
Q7	Discuss the challenges being faced in site accessibility while surveying with Drone	**10**	**CO1**
Q8	Explain the data acquisition steps in UAV remote sensing	**10**	**CO3**
Q9	Evaluate the various application of drone technology in military and civilian fields	**10**	**CO2**

SECTION C (2Qx20=40)

Attempt all questions

Q10	Evaluate the guidelines and Regulations for drone operations in India	**20**	**CO3**
Q11	Critically examine the role of Unmanned Aerial Vehicle in crop growth monitoring **OR** Evaluate the role of UAV remote sensing in Flood area monitoring	**20**	**CO4**