Name: Enrolment No:	

Course: Mobile Mapping   **Semester: VIII**
Program: B.Tech GIE   **Time   : 03 hrs.**
Course Code: PEGI 4004P   **Max. Marks: 100**

Instructions:
All Questions are Compulsory.

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Define direct georeferencing in mobile mapping and how is it achieved.	4	CO1
Q 2	Explain the advantage of laser scanning over photogrammetry.	4	CO1
Q 3	List the different categories in which the primary functions of Mobile GIS from client side can be classified.	4	CO3
Q 4	Differentiate between LAN and WAN as GIS communication networks.	4	CO3
Q 5	Define Linear referencing and list its benefits.	4	CO4

SECTION B
(4Qx10M= 40 Marks)

Q 6	What is an Inertial measurement unit (IMU) and explain the various the components it can measure. Describe the applications where it is used.	6+4 = 10	CO1
Q 7	An airborne laser scanner has a pulse rate of 20kHz, a scan rate of 50 Hz, a flying height of 1000m and a scan angle of 40 degrees. What is the estimated spacing of pulses alone the ground.	10	CO2
Q 8	Illustrate and explain the architecture of Mobile GIS with proper diagram.	10	CO3
Q 9	Briefly summarize the different Mobile GIS protocols.	10	CO3

SECTION-C
(2Qx20M=40 Marks)

Q 10	a) Write a note on the advantages of airborne laser systems for terrain mapping.	10	CO2
	b) Explain the process and benefits of Linear referencing in any two real world applications.	10	CO3
Q 11	Describe any two spatial applications detailing the benefits they can achieve from Mobile mapping technologies.	20	CO4