## IV B.Tech-II Semester–Regular/Supplementary Examinations–April 2017

## GLOBAL POSITIONING SYSTEM (ELECTRONICS & COMMUNICATION ENGINEERING)

Duration: 3 hours	Max. Marks: 70
Answer any FIVE questions.	All questions carry equal marks
· · · · · · · · · · · · · · · · · · ·	ting principle of the GPS and its o of various Segments and neat 8 M
b) Explain about various ty practically.	pes of GPS receivers used 6 M
2. a) Write in detail about the and selective availability	implementation of anti-spoofing . 8 M
b) Describe the signal code used in satellite signaling	structure of different GPS signals g. 6 M
3. a) Discuss the significance significance in real time.	of the GPS time frame and write its 7 M
b) Compare and contrast between Geodetic and Geo centric	
coordinate system.	7 M

4. a) Discuss the navigation message data parameters of RINE		EX
	format used in GPS.	7 M
	b) Write about the various steps involved in GPS position determination practically.	7 M
5.	a) Write the different types of errors and sources in GPS signals and their counter measures.	6 M
	b) Discuss the procedure for ionospheric error estimation u dual frequency GPS receiver	sing 8 M
6.	a) Write in detail about the method for uncorrelated bias parameterization formulation.	6 M
	b) Describe about the optimal baseline network forming an data conditioning algorithms.	nd 8 M
7.	a) Write about the standard algorithms used for GPS Data Processing.	8 M
	b) Distinguish between single point positioning and relative positioning in GPS data processing.	e 6 M

- 8. a) Write a note on applications of GPS Theory for software development and positioning.7 M
  - b) Discuss the concept of Precise Kinematic positioning of GPS applications.7 M