Se	at No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M.E. SEMESTER III–EXAMINATION – WINTER 2015	
	Subject code: 2731405 Date: 04/12/2015		
	-	Name: Geo informatics in Construction Management 30 PM to 5:00 PM Total Marks: 70	
	me: 2: struc		
111		Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Describe the applications of geoinformatics in civil engineering and construction management.	07
	(b)	Define remote sensing. Describe the working principal of remote sensing.	07
Q.2	(a)	Define GIS ? Enlist and explain various advantages of GIS with reference to application in construction management.	07
	(b)	Describe the terms Ground truth and Metadata and their importance in geoinformatics.	07
		OR	0=
	(b)	Explain the following terms: (1) EMR Spectrum (2) Geo referencing	07
Q.3	(a) (b)	Enlist and explain various functions of GIS. Frame out a draft proposed application of GIS for the construction project as per your own surrounding perceptions.	07 07
		OR	
Q.3	(a)	Justify the implementation of GIS in construction supply chain management.	07
	(b)	Describe the role of attribute and spatial data in GIS.	07
Q.4	(a)	What is GPS? How do you see the role of GPS in applied use of geoinformatics for construction management?	07
	(b)	Differentiate between Raster and Vector with suitable example. OR	07
Q.4	(a)	Write a Review on GIS based Construction Project Management. Support your answer also with progress and issues associated with GIS for infrastructure applications.	07
	(b)	Write short note on : (1)Airborne and Space borne Platforms of remote sensing. (2) Errors encountered in GPS	07
Q.5	(a) (b)	Describe the integrated application of GPS system for construction survey How do you see the role of GIS for transportation infrastructure management?	07 07
		OR	
Q.5	(a)	How integrated application of Remote Sensing, GIS and GPS system may benefit to various stockholders of construction industry?	07
	(b)	Describe the GIS based quality control management with reference to construction project of Pipeline Construction inspection and management.	07
