[35]

Seat No.: SARDAR PATEL UNIVERSITY

M.Sc. Geoinformatics SEM – I, October 2016

DATE:	24 TH C	Principles & Application of Oct. 2016	GPS (TIME: 10:00 AM TO 1:00 PM	1		
DAY: I				TOTAL MARKS: 70			
0.1	Choo	ose the correct answer.			[80]		
-	GPS space segment constellations contain total satellites.						
(-/	(A)		(C)				
	(B)		(D)	3			
(2)	IRNSS is position system of India.						
` '		Global		Universal			
	(B)	Regional	(D)	None of above			
(3)	In GI	PS satellite has on board	of clo	ocks.			
		Ordinary clock		Atomic clock			
	(B)	Quartz clock	(D)	None of above			
(4)	is source of error in GPS Signal.						
• ,	(A)		(C)	Signal to noise ratio			
	(B)	PDOP	(D)	All of above			
(5)	Mobile GPS is considering as define Radio.						
, ,		Hardware	(C)	Both (A) & (B)			
	(B)	Software	(D)	None of above			
(6)							
	(A)	Global Navigation Satellite System	(C)	Globe National Survey System			
	(B)	Geo National Super System	(D)	None of above			
(7)	In we are unable to use GPS system.						
, ,	(A)	Deep Underground Tunnels	(C)	Boats			
	(B)	Airplane	(D)	None of above			
(8)	For	Fleet monitoringsystem requ	ired ir	n fleet.			
, ,	(A)	GPS receiver	(C)	Atomic clock			
	(B)	Arc Gls	(D)	None of above			
Q.2	Answer the following.(attempt any seven, each two marks)						
(1)	List 3 segments of GPS and explain any one.						
(2)							
(3)	What is Almanac & ephemeris data?						
(4)	A SVN 64's signal required 60 micro seconds to reach at one boat, but boat's						
•=•	receiver record 70 micro seconds, so what is error in this reading in form of meter?						
(5)							
(6)		at is GCP? Explain geodetic control Su	ıvey.				
(7)		What is clock error? List different types of error in GPS signal.					
(8)	LIST	unicient types of entor in or selfial.					

(9) List different Ten real applications of GPS.

Ų.3	(A)	minimum satellites required for position determination?	[06]
	(B)	Explain C/A code and P codes.	[06]
•	. ,	OR	[00]
	(B)	With neat diagram explain Navigation message system of GPS.	[06]
Q.4	(A)	Explain classification of GPS receivers.	[06]
	(B)	Illustrate Multipath and Ionospheric error with block diagram. OR	[06]
	(B)	Show how GPS perform Position and Height transformation.	[06]
Q.5	(A)	What is software define GPS? What is use of ADC and DAC in Mobile GPS?	[06]
	(B)	Explain block diagram of super heterodyne receiver. OR	[06]
	(B)	Show GIS –GPS unification system.	[06]
Q. 6	(A)	List different time transfer system, and explain in detail.	[06]
	(B)	Explain in detail fleet monitoring system.	[06]
	7	OR .	[00]
	(B)	Show how crustal deformation study carried out by GPS system.	[06]

-: All The Best:-

