

QUESTION – 1 Writethe following		
i)	Explain the difference between Route and Track in GNSS. How to apply each during Expeditions	7
ii)	Write a note on the history and status of GAGAN	7
OR		
i)	Write a note on the history and status of NAVIC	7
ii)	Define waypoints, Tracklogs, and TracBack in GNSS and its usage in surveying	7
QUESTION – 2 Writethe following		
i)	Write a note on Sources of error in GNSS	7
ii)	Write a note on the history of GPS	7
OR		
i)	Write a note on Selective availability	7
ii)	Write a note on the primary functions of GNSS	7
QUESTION – 3 Writethe following		
i)	Write a note on three segments of GNSS	7
ii)	What is the difference between GMT, GPS, and Zulu time	7
OR		
i)	What is the difference between DGPS and Total station	7
ii)	Write a brief note on the current status of the GNSS system of different countries other than India	7
QUESTION – 4 Writethe following		
i)	write a note on the DGPS system with a diagram.	7
ii)	Explain in brief L1, L2 and L5 signals with its advantages	7
OR		
i)	Write a note of Atmospheric correction, Almanac, Ephemeris, GPS Clock Correction	7
ii)	Write a note on different types of DGPS survey	7

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QUESTION -5*Attempt any seven out of twelve.	14
* Short question(One or Two-line answer)	
1. What is a leap second?	
2. What can be considered one disadvantage of the atomic clock?	
3. What is CORS?	
4. What is the difference between GPS and GNSS?	
5. Name 5 types of Position Dilution of Precision (DOP)?	
6. Define PRN.	
7. Give the name of Russian, Chinese, Japanese and European navigation systems	
8. How many satellites are required to get a position fix for 2D and 3D?	
9. Name 4 famous companies manufacturing GNSS/GPS instruments	
10. What is absolute positioning	
11. Name different start modes in GNSS instruments?	
12. Name the three segments of the GPS	

