GPS / GNSS : SAMPLE QUESTIONS

- 1. What are the orbital characteristics of GPS satellites?
- 2. What is the full form of PRN code?
- 3. How is positioning done in GPS? / What is the minimum number of satellites required to determine one's position using GPS? Why?
- 4. What is the minimum and maximum number of GPS satellites that can be viewed by a receiver to determine its position?
- 5. Name the Global Navigation Satellite Systems that can be used as alternatives to GPS.
- 6. In GPS what is meant by clock bias?
- 7. What are the two main carrier frequencies of GPS?
- 8. What is PDOP? Why is it important? How can a GPS survey be planned?
- 9. What is referenced ellipsoid? Why is it required for mapping / positioning?
- 10. What are the dimensions of WGS 84 and Everest spheroids?
- 11. What is the relation between geoid and reference spheroid?
- 12. What is differential GPS?
- 13. What is the dissimilarity between using differential GPS and using GPS in differential mode?
- 14. What is GPS augmentation? Why is it required? Name a few of the GPS augmentation systems.
- 15. What is the function of Base and Rover receivers in GPS positioning in differential mode?
- 16. What are the sources of errors in GNSS survey?
- 17. Explain the advantages and disadvantages of the GNSS survey over conventional (land-based) surveys.
- 18. What is the role of India in GNSS? / What are GAGAN and IRNSS?
- 19. How can old Survey of India maps and GPS/GNSS readings be made compatible to each other?
- 20. What are the advantages and disadvantages of using UTM coordinates in GPS/GNSS positioning?