

PCCCE505 / SURVEY1 - Surveying-II

Max. Marks : 80

7. a) Explain sounding methods of hydrographic surveying. **10**
b) Define tide and concept of Lunar tide. **6**

OR

8. a) Explain in detail cadastral surveying. **6**
b) Write a note on : **10**
1) Spring tides
2) Neap tides
3) Applications of Hydrographic surveying.

9. a) The following are the observed values of an angle. **8**
- | Angle | Weight |
|-------------|--------|
| 40° 20' 20" | 2 |
| 40° 20' 18" | 2 |
| 40° 20' 19" | 2 |
- Find :
1) P. e. of single observation of unit weight.
2) P. e. of weighted arithmetic mean
3) P. e. of single observation of weight
- b) Explain the general principles of least squares. **8**

OR

10. Find the most probable value of the angle A from the following observation : **16**
A = 30° 28' 40" ; 3 A = 91° 25' 55" ; 4 A = 121° 54' 30"
