

SUBJECT CODE NO:- P-125
FACULTY OF ENGINEERING AND TECHNOLOGY
F. E. Examination MAY/JUNE-2016
Elements of Civil Engineering
(Revised)

[Time: Two Hours]

[Max Marks:40]

“Please check whether you have got the right question paper.”

N.B

- 1) Question Number 1 is compulsory.
- 2) Attempt any two questions from remaining questions.
- 3) Draw neat sketch wherever necessary.

- Q.1 Attempt any five 10
- a) Define true meridian.
 - b) Define closed traverse.
 - c) Define free board.
 - d) Define filtration process.
 - e) Define surveying.
 - f) Define neat sketch of earth dam.
 - g) Define Irrigation.
- Q.2 05
- a) Write down procedure for using prismatic compass.
- 10
- b) The following readings were observer with the help of dumpy level & 4m staff. The instrument having been shifted forward after 2nd, 4th & 8th reading. 0.885, 1.230, 2.315, 1.380, 2.935, 3.125, 4.20, 0.225, 1.775, 2.130, 3.785. The first reading was taken on B.M of 131.700m. Calculate R.L of all the points by H.I method.
- Q.3 05
- a) Explain W.C.B & R.B with sketch.
 - b) Explain reciprocal ranging with neat sketch.
 - c) Calculate include angles for the following bearings. 05
- | | | | |
|-------|------------------|------------------|-----------------|
| LINE: | AB | BC | CA |
| F.B | 115 ⁰ | 260 ⁰ | 35 ⁰ |
- Q.4 05
- a) Explain different types of water demands.
 - b) Explain rural water supply.
 - c) Forecast the population for next 3 decades from the last known decades by incremental increase method. 05
- | | | | | | |
|--------------------|--------|--------|--------|--------|--------|
| Year: | 1950 | 1960 | 1970 | 1980 | 1990 |
| Pop ⁿ : | 50,000 | 65,000 | 70,000 | 76,000 | 80,000 |
- Q.5 05
- a) Explain structure involved in watershed management.
 - b) Explain in detail ground water recharge. 05
 - c) Write down the classification of earth dam. 05