

SUBJECT CODE NO: E-289
FACULTY OF ENGINEERING AND TECHNOLOGY
F.E.(All) (CGPA) Examination Nov/Dec 2017
Basic Civil Engineering
(REVISED)

[Time: 2 Hours]

[Max.Marks:40]

Please check whether you have got the right question paper.

- N.B
1. Question no 1 is compulsory.
 2. Attempt any two questions from Q.2 to Q.5.
 3. Draw neat sketches whenever necessary.
 4. Assume suitable data if necessary.

SECTION A

- Q.1 Answer the following. (any five) 10
- a) Write down the benefits of water shed management.
 - b) Enlist water shed structure.
 - c) Define reduced level.
 - d) Define Closed Traverse.
 - e) Define Screening.
 - f) Define Irrigation.
 - g) Draw neat sketch of earthen dam.
- Q.2 Answer the following. 06
- a) Enlist the classification of road and explain each in detail.
 - b) The following consecutive reading were taken with dumpy level and 4m staff on a continuously sloping ground 1.65, 1.92, 2.5, 1.6, 1.85, 2.15, 2.50, 2.10, 2.68, 2.90. The instrument was shifted after taking 4th and 6th reading. Calculate R.L.S of all the points. If R.L. of B.M. =140.00M.
- Q.3 Answer the following. 08
- a) Distinguish between Rigid Pavement and Flexible Pavement.
 - b) Enlist various modes of transportation and explain them in detail. And also give their merits and demerits. 07
- Q.4 Answer the following. 05
- a) Draw the flow diagram of water treatment plant and function of different unit. 05
 - b) Explain in detail Incremental Increase method. 05
 - c) Using Arithmetic Increase method, find the population for the year 1990, 2000, 2010, 2020. 05
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|------------|------|-------|-------|--------|
| Year | 1940 | 1950 | 1960 | 1970 |
| Population | 9000 | 13000 | 18000 | 25,500 |
- Q.5 Answer the following. 05
- a) Write down the requirement of good drainage system in building. 05
 - b) Necessity of Irrigation and benefits of irrigation. 05
 - c) Differentiate between earthen dam and gravity dam. 05