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**SUBJECT CODE NO:- K-260**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**F. E.[Online +Theory Exam] Examination Oct/Nov 2016**  
**Elements of Civil Engineering**  
**(Old)**

[Time:Two Hours]

[Max. Marks:40]

Please check whether you have got the right question paper.

- N.B
- i) Q.No.1 is compulsory.
  - ii) Attempt any two questions from remaining questions.
  - iii) Draw neat sketch wherever necessary.

**SECTION B**

- |      |   |                               |
|------|---|-------------------------------|
| Q.6  | Define the following ( <u>Any five</u> )  | 10                            |
|      | <ol style="list-style-type: none"><li>i. Geodetic surveying</li><li>ii. Sedimentation</li><li>iii. Reduced level.</li><li>iv. Filtration</li><li>v. Irrigation</li><li>vi. Closed traverse</li><li>vii. Watershed area.</li></ol> |                               |
| Q.7  | <ol style="list-style-type: none"><li>a) Explain reciprocal ranging with neat sketches.</li><li>b) State and explain types of benchmark.</li><li>c) Explain Principle of survey (to work from whole to part)</li></ol>            | <p>05</p> <p>05</p> <p>05</p> |
| Q.8  | <ol style="list-style-type: none"><li>a) Explain different types of benchmark</li><li>b) State the objectives of surveying.</li><li>c) Explain working of prismatic compass.</li></ol>  | <p>05</p> <p>05</p> <p>05</p> |
| Q.9  | <ol style="list-style-type: none"><li>a) Explain rainwater harvesting with neat sketches.</li><li>b) State the benefits of irrigation.</li><li>c) Enlist and describe the different types of water demand.</li></ol>              | <p>05</p> <p>05</p> <p>05</p> |
| Q.10 | <ol style="list-style-type: none"><li>a) Differentiate between earthen dam and gravity dam.</li><li>b) Draw labelled diagram of water supply scheme.</li><li>c) Describe ground water recharge.</li></ol>                         | <p>05</p> <p>05</p> <p>05</p> |

2016