

III B. Tech II Semester Supplementary Examinations, December -2023
ELEMENTS OF CIVIL ENGINEERING
 (Com to CE,ME,AGE)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

UNIT-I

1. a) What is the role of Civil Engineers in societal and economic needs on addressing? [7M]
 b) Present infrastructure impact audit on enhancing economy of the nation? [7M]
 (OR)
2. a) Outline the fundamental principles of surveying? [7M]
 b) Present the classification of surveys in reference to mapping and plan development? [7M]

UNIT-II

3. a) What are the application and uses compass surveying? [7M]
 b) Present insights, uses and differentiate between whole circle bearings and reduced bearings? [7M]
 (OR)
4. a) Present the different terminologies come across leveling and explain in reference to different leveling instruments? [7M]
 b) Present the different methods of leveling and explain each method and its adaptability in the field problems? [7M]

UNIT-III

5. a) Name and characterize the different construction materials in civil Engineering fields? [7M]
 b) What are credible characteristics to be owned by aggregates in utilizing at buildings and infrastructures? [7M]
 (OR)
6. a) Present the characterizing tests to be conducted in evaluating the concrete quality? [7M]
 b) Present the salient features of glass and plastic from engineering and scientific point of views? [7M]

UNIT-IV

7. a) Outline the principles to be followed in planning of buildings? [7M]
 b) What are the basic requirements to be followed in residential and industrial buildings? [7M]
 (OR)
8. a) Classify the buildings in reference to functionality, occupancy and structure? [7M]
 b) Outline the features of building byelaws? [7M]

UNIT-V

9. a) Draw and relate the hydrographic cycle from fundamental theories? [7M]
 b) Present the insights to be sensitized in water shed development? [7M]
 (OR)
10. a) Frame the water requirements and its conservation procedures? [7M]
 b) Name the different hydraulic structures and present the functional features of each structure? [7M]