

III B. Tech II Semester Regular Examinations, July -2023
ELEMENTS OF CIVIL ENGINEERING
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks

UNIT-I

1. a) Present the impact of infrastructure on development of economy of the country? [7M]
b) Outline the role of civil engineers in the societal and economic development? [7M]
(OR)
2. a) Explain the importance of planning in construction works. [7M]
b) Discuss about scheduling with one example? [7M]

UNIT-II

3. a) Outline the features and types of bearings in compass survey? [7M]
b) Present the computation of angles, meridians and dip of needle? [7M]
(OR)
4. a) Present the terminology and meaning and application of each in leveling? [7M]
b) Present the different methods of leveling in a detail manner? [7M]

UNIT-III

5. a) What are the different types of construction materials used from construction perspective in Civil Engineering field? [7M]
b) Present the features and characteristics of paints and varnishes? [7M]
(OR)
6. a) Differentiate and characterize the ferrous and non ferrous metals? [7M]
b) Characterize and functional view in civil engineering fields on materials like glass and plastic? [7M]

UNIT-IV

7. a) What are principles to be followed in residential building planning? [7M]
b) What are principles to be followed in industrial building planning? [7M]
(OR)
8. a) Present the common building components in reference to their functions and dimensions? [7M]
b) Present the classification of buildings in reference to occupancy, structure and design loads? [7M]

UNIT-V

9. a) Present the hydrographic cycle and explain each component? [7M]
b) Outline the features and planning leads on watershed development? [7M]
(OR)
10. a) Outline different hydraulic structures in reference to functional differentialities? [7M]
b) Present the ways of water conservation beyond computing water requirements? [7M]

