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Total Number of Pages: 02

Course: B.Tech/IDD
Sub_Code: 23ES1005

1st Semester Regular/Back Examination: 2025-26

SUBJECT: Basic Civil Engineering

BRANCH(S): AE, AEIE, AERO, AG, AI, AIML, AME, AUTO, BIOTECH, CIVIL, CSE, CSEAI, CSEAIML, CSEDS, CSIT, CST, ECE, EEE, EEVDT, ELECTRICAL, ELECTRICAL & C.E, ETC, IT, MECH, METTA, MINING, MME, MMEAM

Time: 3 Hours

Max Marks: 100

Q.Code: U691

Answer Question No.1 (Part-I) which is compulsory, any eight from Part-II, and any two from Part-III.

The figures in the right-hand margin indicate marks.

Part-I

Q1 Answer the following questions: (2 x 10)

- Name two different types of water demands a city may have.
- Define the term "detention period".
- Write the main function of traffic separator.
- State two elements included in road margins.
- Write two disadvantages of irrigation.
- Name two common building stones available in your country.
- State two uses of steel in buildings.
- Define the term "gravity dam"
- Write the ingredients of concrete.
- State the functions of foundation in a structure.

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Write short notes on importance of interdisciplinary approach in the development of infrastructures.
- Differentiate between rigid pavements and flexible pavements with examples.
- State the important uses of cement mortar.
- Write short notes on any four types of glasses.
- Name and state the uses of any three types of non-ferrous metals.
- State about the various ingredients of the plastics and mention about their uses.
- Provide a detailed classification of urban roads.
- Differentiate between plain sedimentation and sedimentation aided with coagulation.
- Write short note on disinfection process of water treatment.

- j) State in detail about the purpose of construction of dams.
- k) Provide a basic lay out of public water supply system.
- l) Explain in detail about of different types timber used in construction.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3** State and explain with sketches about different components of canal irrigation system. (16)
- Q4** Write an explanatory note on the general types of foundations with suitable sketches. (16)
- Q5** State and explain with sketches about basic components of buildings and state also their functions. (16)
- Q6** Discuss in detail about classification of bricks. Explain also about the different uses of bricks. (16)