

Registration No.:

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Total Number of Pages: 02

Course: IDD (B.Tech and M.Tech)

Sub\_Code: 23ES1005

2<sup>nd</sup> Semester Regular/Back Examination: 2024-25

SUBJECT: Basic Civil Engineering

BRANCH(S): AE, AEIE, AERO, AUTO, BIOMED, BIOTECH, CHEM, CIVIL, CSE, CSEAI, CSEAIML, CSEDS, CSEIOT, CST, ECE, EEE, EVDT, ELECTRICAL, ELECTRICAL & CE, ETC, IT, EE, MANUTECH, MECH, METTA, MINERAL, MINING, MME, PLASTIC

Time: 3 Hours

Max Marks: 100

Q.Code: S533

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)
- a) Distinguish between coarse aggregates and fine aggregates.
  - b) Name two important disciplines of Civil engineering.
  - c) Write the basic Components of a Road.
  - d) List out the various applications of mortar.
  - e) Provide two examples of adhesives.
  - f) List out the various constituent materials of plane cement concrete.
  - g) Name two advances of conveyor system.
  - h) Define the term "Per capita demand".
  - i) Explain the term "disinfection".
  - j) Mention the importance of Irrigation in our country.

**Part-II**

- Q2** Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)
- a) State in detail about the Importance of civil engineering in infrastructure development of the country.
  - b) Draw the neat sketches of basic components of a building.
  - c) Name the different Physical, mechanical and durability properties of construction materials.
  - d) Describe in detail about various applications of stones as construction material.
  - e) State in detail about different types of tiles used for building construction.
  - f) Write short note on urban road classification.
  - g) Distinguish between rigid pavement and flexible pavement with examples.
  - h) Write short note on the sedimentation aided with coagulation process in water treatment.
  - i) Provide a detailed classification bricks as per Bureau of Indian Standards (BIS).