SP - 221

Total No. of Pages : 2

Seat No.	

Fourth Year B.Tech. (Civil Engineering PE3) (Part - IV)
(Semester - VIII) (CBCS) Examination, November - 2023
PCE-CV 805 : ADVANCED CONSTRUCTION TECHNIQUES
Sub. Code : 84759

Day and Date : Friday, 24- 11 - 2023 **Total Marks : 70**
Time : 10.30 a.m. to 1.00 p.m.

Instructions :
1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**
3) **Assume suitable data if necessary and state them clearly.**
4) **Answer shall be supported by adequate sketches.**

8887

SECTION-I

Q1) Attempt all questions. **[12]**

a) Enlist the design load for formwork.

b) What are the requirements of Good formwork?

8887

Q2) Attempt any Two. **[11]**

a) Explain Polymer composites with their advantages & disadvantages.

b) Write a note on thermosetting Adhesive.

c) State important properties of FRC & MDF.

8887

Q3) Attempt any Two. **[12]**

a) What are the advantages & disadvantages of Vaccum Consolidation?

b) State the stepwise procedure of vibrocompaction.

c) Explain Soil nailing in detail with sketch.

P.T.O.

SECTION-II

Q4) Attempt all questions. **[12]**

a) What is Cofferdam? Write the necessity of cofferdam.

b) Explain different types of Caissons with neat sketch.

Q5) Attempt any Two. **[11]**

a) Explain the necessity of Bridge Rehabilitation.

b) Write a note on Diaphragm walls.

c) Explain Methods of Bridge rehabilitation with sketch.

Q6) Attempt any Two. **[12]**

a) Explain with neat Sketch the Vacuum Dewatering Process.

b) State the Mechanism of Revibration of concrete.

c) Explain the Importance of Strengthening of Foundations.

❄ ❄ ❄

8887