

Seat No. **OCT-NOV 2025 WINTER EXAMINATION****1154 B.Tech. CBCS****Sub. Name: Advanced Construction Techniques****Sub. Code: 67764/84759/84944****Day and Date: Friday ,05-12-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM**

Instructions: 1. All questions are compulsory
 2. Assume suitable data wherever necessary and mention it boldly
 3. Figures to the right indicate full marks

Special Inst.: Answer shall be supported by adequate sketches

- Q1)** Attempt all questions. [12]
 a) Explain the different factors influence the cost of formwork.
 b) What are the requirements of Good formwork?
- Q2)** Attempt any Two. [11]
 a) Explain fibre reinforced concrete & their advantages
 b) What is FRP? Write their applications?
 c) Write a note on thermosetting Adhesive.
- Q3)** Attempt any Two. [12]
 a) What is Soilcrete? Explain in detail
 b) What is Soil fracturing?
 c) What are the advantages & disadvantages of Vaccum Consolidation?
- Q4)** Attempt all questions [12]
 a) What are the types of Cofferdam ? Explain in detail with sketch.
 b) Explain different types of Caissons with neat sketch.
- Q5)** Attempt any Two. [11]
 a) Explain Methods of Bridge rehabilitation with sketch.
 b) State the benefits of Vaccum Dewatered Flooring to contractors,Architects, & Owner.
 c)Short Note on Bridge Rehabilitation.
- Q6)** Attempt any Two. [12]
 a) Explain with neat Sketch the Vacuum Dewatering Process.
 b) State the benefits of Revibration of Concrete.
 c) State the steps for Strengthening of Isolated Footing with neat sketch.

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

- 1] (101) Bachelor of Engineering (67764) Advanced Construction Techniques Part 4 SEM 8
- 2] (101) Bachelor of Engineering (84944) Advanced Construction Techniques Part 4 SEM 8
- 3] (1154) B.Tech. CBCS (84759) Advanced Construction Techniques Part 4 SEM 8

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