Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

1154 B.Tech. CBCS

Sub. Name: Advanced Construction Techniques

Sub. Code: 67764/84759/84944

Day and Date: Wednesday,03-06-2026 **Total Marks: 70**

Time: 02:30 PM To 05:00 PM

Instructions: **1. Draw neat labelled diagrams wherever necessary**
2. Figures to the right indicate full marks

Special Inst.: **1) Question number 4 and question number 8 are compulsory.**
2) Attempt any Two questions from question number 1, 2, 3 and any Two questions from question number 5, 6, 7.

Q1) Attempt all questions **[10]**
a) Explain in detail special types of formwork.
b) Differentiate between Composite and Non composite construction

Q2) Attempt all questions. **[10]**
a) Explain Fibre reinforced plastic (FRP) and there advantages.
b) Write advantages and disadvantages of medium density fibre board (MDF).

Q3) Attempt all questions. **[10]**
a) Explain in detail Vaccume Consolidation.
b) Write in detail about Gabbions and Cribs.

Q4) Attempt all questions. **[15]**
a) What is selection criteria for formwork material.
b) Explain Epoxy resins and there advantages in detail.
c) What is Soilcrete explain in detail.

Q5) Attempt all questions **[10]**
a) Explain types of Coffer dams.
b) Explain various materials used for Caissons.

Q6) Attempt all questions. **[10]**
a) Explain the necessity of Bridge Rehabilitation.
b) Explain the procedure of Rehabilitation of Bridge Deck slab.

Q7) Ateempt all questions. **[10]**
a) What are the advantages of Revibrated Concrete.
b) Write in detail about Sanitary landfills.

Q8) Attempt all questions. **[15]**
a) Explain loading of Caissons.
b) Explain bridge foundation strengthening with neat sketch.

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c) Explain in detail Vaccum processing in concrete pavement.

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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