



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002

Phone No.: 0257-2281522

Website : www.gcoe.ac.in

Fax No.: 0257-2281319

E-mail : princoe@rediffmail.com



Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CE304UB - Professional Elective -I-Construction Practice**

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Maximum Marks : **60**

Duration : **3 Hrs**

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Answer Key Submission Type: Marking scheme without solution

Instructions:

1. All questions are compulsory. In all Questions sub Q.a) is compulsory & attempt any one sub Q. out of b) and c)
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

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|---|------|
| 1) a) How do smart building works. What makes a building smart , Explain ? | [10] |
| b) What are the principles of specification writing ? | [5] |
| c) What is "Slip Form " construction technique, Explain? | [5] |
| 2) a) What is acoustic protection ? Why is it important ? | [10] |
| b) What are the advantages of pile foundation ? | [5] |
| c) What are the differences between Tunnel and Bridge ? | [5] |
| 3) a) What are the methods used to concrete under water ? Explain any one ? | [10] |
| b) What is Modular construction technology ? What are its methods ? | [5] |
| c) What is Lining of Tunnel ? Explain its purpose ? | [5] |
| 4) a) Why is Precast Concrete used ? What are its advantages ? | [10] |
| b) What are the factors affecting site selection of a bridge ? | [5] |
| c) What is Cofferdam and its types ? | [5] |

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