



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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

Course Code & Course Name : **CE201U - Introduction to Civil Engineering**

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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.
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.

- 1) Q(a) compulsory. Solve either Q (b) or Q (c)
 - (a) Discuss five year plan outlay for construction and current budget for infrastructure works. [5]
 - (b) Enlist various building materials and explain an two material. [5]
 - (c) Explain the characteristics of smart cities and various tools used. [5]
- 2) (a) Explain construction of any one civil engineering structure. [5]
 - (b) What is wind tunnel? How wind tunnel is useful for Civil engineering structures? [5]
- 3) (a) How soil mechanics, rock mechanics and geology studies are useful for civil engineers? [5]
 - (b) Explain hydrological cycle with neat diagram. [5]
- 4) Q(a) compulsory. Solve either Q (b) or Q (c)
 - (a) Explain GPS and LIDAR. [5]
 - (b) Draw water treatment plant system and explain each part. [5]
 - (c) Explain effluent treatment systems. [5]
- 5) (a) What is PPP? How PPP is implemented in transport sector? Explain with example. [5]
 - (b) Draw schematic hydro-power project ans discuss the same. List advantages of hydro-power projects? [5]
- 6) Q(a) compulsory. Solve either Q (b) or Q (c)
 - (a) Explain non destructive testing system with respect to concrete testing. [5]
 - (b) Explain building information system modeling software. [5]
 - (c) Explain application of IoT in civil engineering. [5]

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