



Sanjay Ghodawat University, Kolhapur

Established as State Private University under Govt. of Maharashtra, Act No XL, 2017

2018-19

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of FY B. Tech

Course Code: FYT 105

Course Title: Elements of Civil Engineering

Semester -- IV

Day and Date: Fri, 31/05/2019

End Semester Examination (ESE)

Time: 10.30a.m. to 1.30p.m.

Max Marks: 100

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1	Solve any Two	Mark s	Bloom's Level	CO
a)	Enlist and discuss the scope of various sub branches of civil engineering	07	L <sub>2</sub>	CO1
OR				
a)	Explain role of civil engineering in various construction activities.	07	L <sub>2</sub>	CO1
b)	Enlist various principles of planning. Explain any three with sketches.	08	L <sub>2</sub>	CO2
OR				
b)	Define Building Bye Law. Explain the following building bye laws. i) Open space requirement ii) Built up Area iii) Height of building	08	L <sub>2</sub>	CO2
Q.2	Solve any Two			
a)	Draw neat sketch of building components of structure & explain any three components of superstructure.	07	L <sub>2</sub>	CO3
OR				
a)	Give various types of deep foundation & Explain any three	07	L <sub>2</sub>	CO3
b)	Define surveying. Explain the principles of surveying works with sketches.	08	L <sub>2</sub>	CO4
OR				
b)	The following bearings were taken with a prismatic compass in running a closed traverse i) Find correct F.B. & B.B. ii) At what stations do you suspect local attraction. iii) Find out included angles.	08	L <sub>2</sub>	CO4

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Q.5 **Solve any Two**

- |  |    |                |     |
|--|----|----------------|-----|
| a) Explain components of railway track with sketch   | 09 | L <sub>2</sub> | CO6 |
| b) Explain water supply scheme in detail with sketch | 09 | L <sub>2</sub> | CO6 |
| c) Explain types of Irrigation in detail with sketch | 09 | L <sub>2</sub> | CO6 |

Q.6 **Solve any Three**

- |  |    |                |     |
|--|----|----------------|-----|
| a) Write note on EDM with special reference to Total station               | 06 | L <sub>2</sub> | CO5 |
| b) Enlist various types of levelling & Explain any two types of levelling. | 06 | L <sub>2</sub> | CO5 |
| c) Explain components of rigid and flexible pavement with neat sketch      | 06 | L <sub>2</sub> | CO6 |
| d) Give difference between Gravity Dam & Earthen Dam                       | 06 | L <sub>2</sub> | CO6 |

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