Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

Year and Program: 2020-21	**School of Technology**	**Department: First year Bachelor of Technology**
Course Code: FYT105R1	**Course Title: Elements of Civil Engineering**	**Semester : I**
Day and Date:Thursday 6 May 21	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Instructions: 1) All Questions are compulsory.
2) Scientific calculator is allowded.
3) Right figure indicates full marks.

		Marks	Bloom's Level	CO
Q.1	**Answer/Solve the following (any Two)**			
a)	Enlist various principles of planning. Explain any three with sketches.	8	L2	CO1
b)	Give objectives of Building Bye Laws. Explain the following. i) Building line & control line ii) Built up Area	8	L2	CO1
c)	State various types of foundation and explain any two in detail with sketch	8	L2	CO2

Q.2 Answer/Solve the following (any two)

a) The following bearings were taken with a prismatic compass in running a closed traverse — 8 L3 CO3

i) Find correct F.B. &B.B.
ii) At what stations do you suspect local attraction?
iii) Find out included angles.

	FB	BB
AB	53° 00'	233° 00'
BC	143° 00'	321° 30'
CD	221° 30'	40° 30'
DA	330° 30'	153° 00'

b) Rule out a page of level book to enter following reading with dumpy level. : 3.875, 3.630, 2.865, 1.945, 0.920, 3.165, 2.860, 1.895, 2.125, 0.965, 0.785The level was shifted after the fifth and eight readings. The RL of first point was 260.865 m. Calculate reduction levels by Rise & Fall method. Apply usual checks. — 8 L3 CO3

	c)	Explain characteristics of contour.	8	L2	CO3
Q.3		**Answer/Solve the following (any two)**			
	a)	Explain water supply scheme in detail with sketch.	9	L2	CO4
	b)	Explain gravity dam and earthen dam with neat sketches	9	L2	CO4
	c)	Give the difference between flexible pavement and rigid pavement. Also draw sketches for flexible and rigid pavement	9	L2	CO4

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