



Sanjay Ghodawat University, Kolhapur

2017-18

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

FY B Tech

School of Technology

Semester II

FYT 106

Elements of Civil Engineering

Max Marks: 100

31st MAY 2019

End Semester Examination (ESE)

Time: 3 Hrs

Friday

10:30 am to 1:30 pm

- Instructions for Students:**
- 1) Use of non-programmable calculator is allowed
 - 2) All questions are compulsory

Q1	Solve any Two	Marks	COs
a)	Give ² the difference between load bearing & framed structure	09	CO1
b)	Explain ² various types of loads coming over the structure	09	CO1
c)	Enlist ² branches of civil engg. & explain any four	09	CO1
Q2			
a)	Write ¹ note on bye laws..	04	CO2
b)	Explain ² following principle of planning: i)Aspect ii)privacy iii)Elegance & economy	12	CO2
	OR		
b)	Explain ² the following building bye laws. i) Building line & control line iii) Built up area ii) open space requirement iv) Height of building	12	CO2
Q3			
a)	Explain ² foundation & its functions.	04	CO3
b)	Enlist ² various types of shallow foundation and explain any four in detail	12	CO3
Q4			
	Solve any Two		
a)	Write ² difference between WCB & RB with sketches	09	CO4
b)	A 30m chain was tested before commencement of days work and found to be correct. After chaining 1000m, the chain was found to be 5 cm too long. At the end of days work, after chaining a total distance of 2300m the chain was found to be 9 cm too long. What ³ was the true distance chained?	09	CO4

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- Q4 c) The following bearings were taken with a prismatic compass in running a closed traverse 09 CO4
- i) Find² correct F.B. & B.B.
 - ii) At what² stations do you suspect local attraction?
 - iii) Find² out included angles.

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

Q5

- a) What² are the various components of prismatic compass. 04 CO5
- b) Rule out a page of level book to enter following reading on continuously sloping ground at 20 m interval. The RL of first point (A) was 192.120 m. Calculate³ reduction levels by Rise & Fall method. Apply usual checks. Determine gradient as the line joining first and last station 12 CO5
0.602, 1.234, 1.860, 2.574, 0.238, 0.914, 1.936, 2.872, 0.568, 1.824, 2.722.

OR

- b) Rule out a page of level book to enter following reading on continuously sloping ground at 20 m interval. The RL of first point was 101.910 m. Calculate³ reduction levels by HI method. Apply usual checks. 12 CO5
1.880, 2.670, 3.750, 0.780, 2.170, 2.250, 3.975, 1.410, 1.580, 2.525

Q6

- a) Explain² earthen dam with sketch. 04 CO6
- b) Explain³ water supply scheme in detail with sketch. 12 CO6

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