Sanjay Ghodawat University, Kolhapur

2020-21

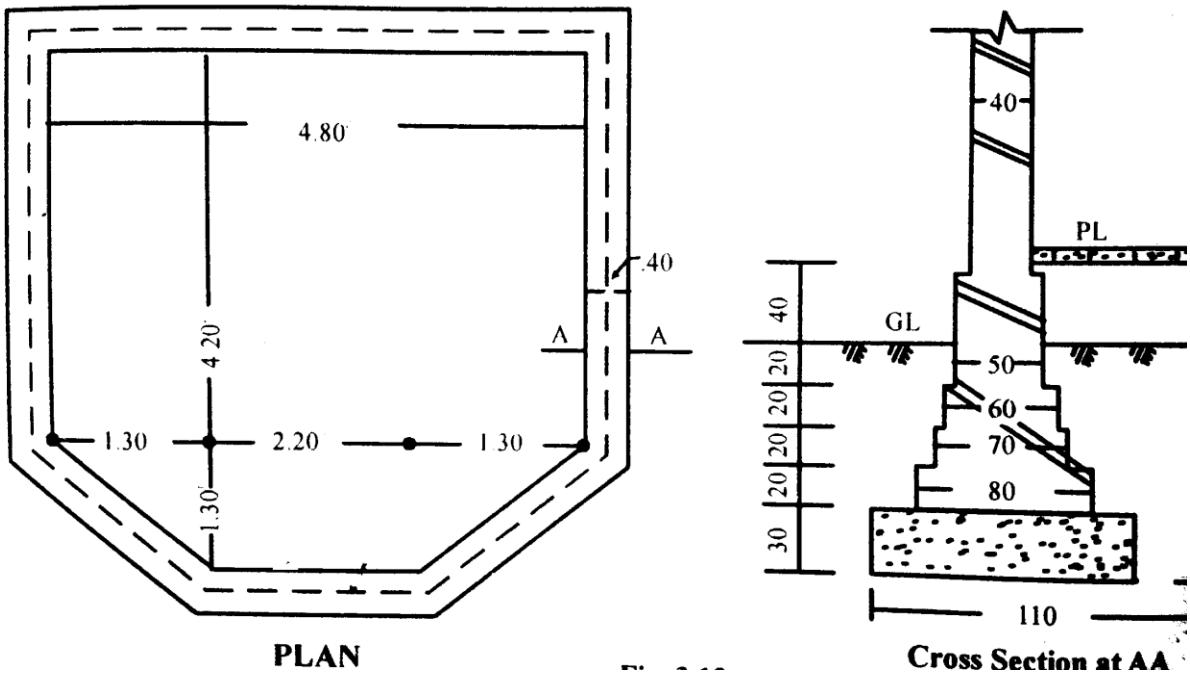
Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: Final Year - B. Tech	**School of Technology**	**Department: Civil**
Course Code: CET401	**Course Title: Quantity Survey &Valuation**	**Semester :VII**
Day : Monday **Date: 01.03.2021**	**End Semester Examination**	**Time:2 Hrs.** **Max Marks:50**

Instructions: 1) All Questions are compulsory.
2)Assume any suitable data if missing

Q.1	**Answer the following (any Two)–**	**Marks**	**Bloom's Level**	**CO**
a)	Explain principles of unit of measurements. Also state unit of measurement for following 1) Brick work 2) Plaster 3) Skirting 4) steel work	8	03	CO1
b)	Prepare rate analysis for Brick work with 1:5 mortar .Take qty- 10 m^3	8	04	CO2
c)	Calculatequantities 1) Excavation 2) PPC 3) Brickwork in foundation and plinth for following drawing Draw Measurements Sheet. Use Centre Line Method (In plan dimension are in meter and in section dimensions are in centimeter)	8	04	CO1



Q.2 **Answer the following (any two) –**

a) Prepare Bar bending Schedule for beam having c/s 300 x 350 mm. Overall length of beam is 5.75m. Reinforcement details is following Draw section at mid span and near to end — 8 — 04 — CO2

1) Anchor / Top Bar – 2 Nos 16 mm dia.
2) Bent bar at 45^0 – 2 Nos.16 mm dia.
3) Bottom Straight Bar – 2 Nos 16 mm dia.
4) Stirrups – 8 mm dia.115 c/c.
5) End Cover -40 mm
6) Side Cover -25 mm

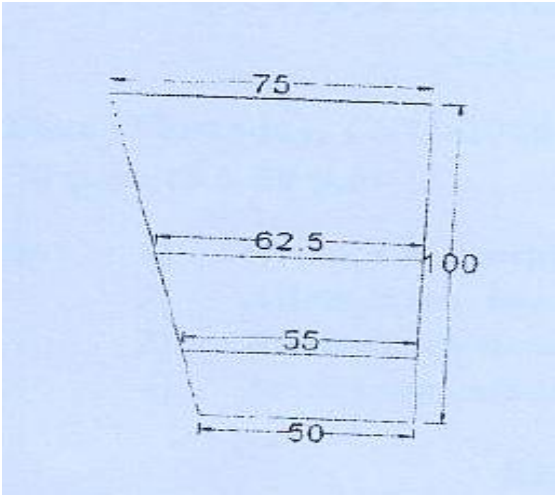
b) Explain essential of valid contract? Also state reasons for breach of contract — 8 — 03 — CO3

c) Draft tender notice for bridge construction over Ring Road around Kolhapur city estimated cost is 3.0 Cr. Assume suitable data — 8 — 04 — CO3

Q.3 **Answer the following (any two) –**

a) A concrete mixer was purchased at Rs150000/-. Assuming salvage value to be 10 % after seven years, calculate book value for each year by straight line method and constant percentage method — 9 — 04 — CO4

b) Calculate Valuation ofa plot shown ia figure by belting method. Depthof first belt is 25 m and is valued at Rs. 450 per sqm. — 9 — 04 — CO4



c) Explain purposes of valuation — 9 — 03 — CO4