D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY
KASABA BAWADA KOLHAPUR - 416006
(An Autonomous Institute)
S. Y. B. Tech
END SEMESTER EXAMINATION, Dec. – 2022

Q. Paper Code: 22SYCE2013205
Set-: II

Course Name: Building Construction and Materials Course Code: 201CEL205

Seat No:

Day and Date: …….day, …/…/2022
Time: 2hr. 30min. **Max. Marks- 50**

Instructions:

i. Question No. 1&2 is compulsory.
ii. Figure to the right indicate full marks.
*iii. Solve only **Q.2** onto **drawing sheet** to the appropriate scale.*
iv. Draw neat sketches supporting your answers.

BT	CO's	Q. No.		Marks
		Q.1	**All Questions are compulsory**	**20 M**
2	**CO1**	**a**	Enlist different types of bond in Brick masonry. Explain English Bond with neat sketch of 1½ brick thick wall.	6M
1	**CO2**	**b**	Write a short note on i) Concrete flooring ii) Column formwork	8 M
3	**CO3**	**c**	Draw neat sketch of Paneled door with single shutter and two panels and label various parts. (Proportionate sketch)	6 M
		Q.2	**Question is compulsory**	**15 M**
4	**CO4**		Design and draw plan and sectional elevation of RCC quarter turn staircase for residential building having floor height 3.3m. Assume suitable data as per requirement. Use scale 1:25.	15
			OR	
			Design and draw plan and section of RCC dog legged staircase for the following data: Storey height = 3m; Stair width = 1m; Staircase size = 2m X 4.5m Scale 1:25. Assume suitable data wherever necessary.	15
		Q.3	**Attempt any one out of two questions**	**8 M**
2	**CO3**	**a**	Explain various methods and systems used for water proofing.	8
2	**CO3**	**b**	What are various methods of plastering?	8
		Q.4	**Attempt any one out of two questions**	**7 M**
1	**CO3**	**a**	Write short note on Air conditioning.	7
1	**CO3**	**b**	What are general principles in acoustical design?	7

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