Reg. No.						
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Question Paper Code

12553

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

EighthSemester

Civil Engineering

20CEEL803 - BUILDING SERVICES

Regulations - 2020

I	Durat	Iax. Marks: 100					
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions				Marks K – CO			
1.	· · · · · · · · · · · · · · · · · · ·						
2.	2. Define bib cock and classify its types.						
3. Differentiate Sewage and Sullage.				K2 CO2			
4.	4. Write a short note about Jacuzzi.						
5.	5. Classify the different types of wastes.						
6.	6. Define composting.						
7.	7. Classify buildings according to NBC codes.						
8.	8. List any two causes and spread of fire.						
9.	9. List the essential components that a plumbing plan should show.						
10.	10. Enlist the most common elements that are included in a fire escape plan.						
		PART - B ($5 \times 13 = 65$ Marks) Answer ALL Questions					
11.	a)	Classify the different types of valves, its components and explain a five in detail.	ıny ¹³	K2 CO1			
	1 \	OR	13	K2 CO1			
	b)	Explain about rain water harvesting in buildings.	13	K2 COI			
12.	a)	Explain the different types of traps with a neat sketch. OR	13	K2 CO2			
	b)	Explain the various cross section of sewer.	13	K2 CO2			
13.	a)	Describe the methods of solid wastes disposal. OR	13	K2 CO4			
	b)	Explain about the guidelines for municipal solid waste management according to solid waste management bye-laws, 2019.	ent ¹³	K2 CO4			
14.	a)	Explain about the systems of fire protection in buildings.	13	K2 CO5			

12553

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

OR

- b) Discuss in detail about the planning and design of fire escape 13 K2 CO5 elements.
- 15. a) With a neat sketch explain the plumbing drawing and its key ¹³ K2 CO6 components.

OR

b) With a neat sketch explain about reflected ceiling plan of a fire 13 K2 CO6 sprinkler system.

PART - $C(1 \times 15 = 15 \text{ Marks})$

- 16. a) Explain about DEWATS and root zone water treatment.

 15 K2 CO3

 OR
 - b) Explain the grey water recycling system with its components. 15 K2 CO3