Register Number:……..

KUMARAGURU
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B.E DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Sixth Semester

CIVIL ENGINEERING

U18CEE0016**:** Building Information Management

COURSE OUTCOMES

CO1: Analyse the selection of various building materials, services and its structure

CO2: Understand the various environmental aspects involved in the building

CO3: Understand the integration of MEP systems in building construction

CO4: Identify the various components of infrastructure projects

CO5: Analyse the various aspects of safety and maintenance in construction

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	List out the various building enclosure system.	CO1	[K_1]
2.	Define aesthetics in terms of architecture.	CO1	[K_1]
3.	Compare exfiltration with infiltration.	CO2	[K_2]
4.	Mention any four water proofing materials used for weather resistance.	CO2	[K_1]
5.	List out the principles of pipeline positioning.	CO3	[K_1]
6.	Classify the three sides of E&P based on the MEP interfacial components.	CO3	[K_2]
7.	List out the various patterns of runway.	CO4	[K_1]
8.	Name the components of harbor.	CO4	[K_1]
9.	Mention any four techniques of fire escape	CO5	[K_1]
10.	Identify the features of green building.	CO5	[K_1]

Answer any FIVE Questions: -
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	a)	Describe the necessary functional requirements of walls as a building enclosing system.	8	CO1	[K_2]
	b)	Illustrate the factors involved in selection of materials for construction projects.	8	CO1	[K_2]
12.	a)	Explain the various techniques adopted in construction of walls and doors for controlling the acoustics in buildings.	8	CO2	[K_2]
	b)	Illustrate the various building related factors to be considered in Indoor Environmental Quality (IEQ) evaluation.	8	CO2	[K_2]
13.	a)	Explain the Eight Criteria involved in sequencing logic of MEP system installation for interface integration in building construction.	8	CO3	[K_2]
	b)	Outline the role of construction management and its demands in the infrastructure development projects.	8	CO3	[K_2]
14.	a)	Explain the components of airport with neat sketches.	8	CO4	[K_2]
	b)	Explain the various components of highways and its significance in detail with a neat sketch.	8	CO4	[K_2]
15.	a)	Classify the various types of pollution produced due to construction activities and its causes in detail.	8	CO5	[K_2]
	b)	Explain the various types of fire preventive techniques adopted for safety in construction projects.	8	CO5	[K_2]
16.	a)	Describe the various components of railways with neat sketches.	8	CO5	[K_2]
	b)	Discuss on the prospects of infrastructure sector and its future needs.	8	CO3	[K_2]

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