Register Number:……..

B.E/B.TECH DEGREE EXAMINATIONS: NOV/DEC 2024

(Regulation 2018)

Seventh 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.	State aesthetics in terms of architecture.	CO1	[K_1]
2.	Mention the various building enclosure system in a structure.	CO1	[K_1]
3.	Compare exfiltration with infiltration.	CO2	[K_2]
4.	List out the various weather resistance materials for water proofing.	CO2	[K_1]
5.	Mention the objectives of MEP integration.	CO3	[K_1]
6.	List out the need for integrated building management system.	CO3	[K_2]
7.	Name the components of harbor.	CO4	[K_1]
8.	Mention the different types of rails adopted in railway tracks.	CO4	[K_1]
9.	List out the factors influencing the access for maintenance of buildings.	CO5	[K_1]
10.	Discuss on the influence of design for the better performance of the building.	CO5	[K_2]

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

11.	a)	Identify the factors involved in selection of materials in detail for a highway project, discussing how each factor influences the overall project outcomes	8	CO1	[K_3]
	b)	Explain the various types of elements of aesthetics in terms of architecture.	8	CO1	[K_2]

12.	a)	Illustrate the various techniques in controlling the acoustics in buildings adopted for construction of structural elements	8	CO2	[K_2]
	b)	Analyze the various building related factors to be considered in Indoor Environmental Quality (IEQ) evaluation for a hospital building	8	CO2	[K_4]
13.	a)	Explain the Eight Criteria involved in sequencing logic of MEP system installation for interface integration in building construction in a high-rise apartment building	8	CO3	[K_3]
	b)	Explain the principles of pipeline positioning in MEP integration.	8	CO3	[K_2]
14.	a)	Describe the components of highways with suitable diagrams showing the cross-section details.	8	CO3	[K_2]
	b)	Explain the various components of airport and its significance in detail.	8	CO4	[K_2]
15.	a)	Illustrate the various fire preventive techniques adopted for safety in a shopping mall.	8	CO4	[K_3]
	b)	List out the factors affecting the maintenance of buildings in detail with suitable examples.	8	CO4	[K_2]
16.	a)	Outline the role of construction management and its technological demands in the infrastructure development projects.	8	CO3	[K_3]
	b)	Categorize the various types of pollution caused due to construction activities.	8	CO5	[K_2]

****