SIXTH SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE - OCTOBER 2013

SUSTAINABLE ARCHITECTURE

	ranienie. 🐝	SUSTAINABLE ARCHITECTURE	
Maxim	num N	1arks : 100	Time: 3 Hrs
		PART-A	
9		(Maximum marks: 10)	
I	Ans	wer the following questions in one or two sentences. Each question carries 2	
			Marks
	1	Name the Japanees rating systems for sustainability?	
	2	Define the term sustainable design?	
	3	What is earth sheltering?	
	2 3 4 5	Define the term demolition?	
	5	Name the power generation using solar panells?	[5x2 = 10]
		PART - B	
		(maximum marks: 30)	
II	Ans	wer any five of the following questions. Each question carries 6 marks	
	1	Describe the effects of climate change and temperature in water resource?	
	2	Explain the term Energy efficiency	
	3	What is meant by sustainable development?	
	4	Write the Benefits of Reducing and Reusing?	
	2 3 4 5	What are the economic benefits of green or sustainable building and devel	opment?
	6	Discuss the LEED(US) rating System?	
	7	Explain the term recycling?	[5x6=30]
		PART - C	
		(maximum marks : 60)	
		Answer one full question from each unit. Each question carries 15 marks	
		UNIT – I	
III	a	List the general principles of energy conservation?	[8]
	b	Write briefly primary rating systems in India	[7]
	-	OR	1.1
IV	a	Explain how do buildings affect climate change?	[8]
14	b	What makes a building "green"?	[7]
	D	What makes a building green:	[,1
		UNIT II	
V	a	Explain how to maintain economy resources achieving Sustainable Design?	[8]
•	b	What are the points to be considered at the time of Site Selection and Site	1.400.4
	D	Planning in sustainable design?	[7]
		OR	[1]
VI	•	What are the economic benefits of sustainable building and development	[8]
VI	a b	[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[
	D	Differentiate between sustainable design and sustainable development?	[7]
		LINIT III	
VII	_	UNIT III	101
VII	a	Name any ten sustainable materials	[8]
	Ь	Explain photovoltaic power generation?	[7]
3.700		OR	101
VIII	a	What are the techniques adopted in sustainable construction?	[8]
	b	Write short note on vernacular design	[7]
		LDUT D	
D./		UNIT – IV	101
IX	a	Discuss the demolition and recycling of buildings and their materials	[8]
	b	Write any five Ideas on how to reduce and reuse?	[7]
		OR	
Х	a	Discuss the waste prevention strategies in general?	[8]
	b	What are the Benefits of Recycling?	[7]
