Tota	l No.	of Questions : 12]	SEAT No.:
P35			[Total No. of Pages : 3
F 33	740	[4859]	
		B.E. (Ci	
		GREEN BUILDING	,
		(2008 Pattern) (Open Ele	ctive) (Semester - 11)
Time: 3 Hours]			[Max. Marks : 100
Insti	ructio 1)	ns to the candidates: Answer any three questions from So	ection - I and Section - II
	<i>2)</i>	Figures to the right indicate full m	
	3)	Your answers will be valued as a w	hole.
	<i>4)</i>	Assume suitable data, if necessary.	
		<u>SECTIO</u>	<u>N - I</u>
Q1)	a)	Explain and discuss sustainable site selection criteria and orientation.[7]	
	b)	Discuss the uses of following:	[3+3+3=9]
		i) Building layout plan.	
		ii) Solar Energy.	
		iii) Fresnel Lens.	
		OR	
Q2)	a)	Discuss direct and indirect lighting	g. [6]
	b)	What is solar concentrator? Disc	uss. [4]
	c)	Give note on design of door and	window ventilation. [6]
Q3)	a)	Compare the active and passive a	rchitecture. [6]
	b)	Explain the concept of Embodied	Energy. [5]
	c)	Give the selection criteria for mater	ial of surface treatment for improvement

OR

in thermal comfort with minimum energy input.

Q4) a) Explain hybrid system of active and passive refrigeration and air conditioning.[9]

b) Explain the Energy audit of Building in detail. [8]

[6]

Q5)	a)	Discuss the Green rating of Building.	
	b)	What you understand by environmental clearance of bu	uildings? Discuss. [9]
		OR	
Q6)	a)	Discuss the improvement for thermal comfort.	[6]
	b)	Give note on followings:	[4+3+4=11]
		i) USGBS.	
		ii) CDM.	
		iii) Carbon credit.	
		SECTION - II	
Q7)	a)	Explain water efficient landscaping.	[6]
	b)	Explain any one method with suitable sketch for bore well recharging.[6]	
	c)	Discuss the minimization of water use.	[5]
		OR	
Q8)	a)	Give the note on following:	[3+4+4=11]
		i) Smart water taps.	
		ii) Anaerobic filters.	
		iii) Ion exchanger.	
	b)	Discuss about advanced biogas plant.	[6]
09)	a)	Explain what is indoor environmental quality.	[8]
2-)	b)	Discuss how the quality of indoor environment is main	
	-)	OR	[-]
Q10)	a)	Differential the following:	[4+3=7]
~		i) Adhesives and Sealants.	. ,
		ii) Paints and Coatings.	
	b)	Discuss the uses of following:	[4+3+3=10]
		i) Composite Wood.	-
		ii) Bamboo.	

iii) Jute

Q11) a) How the recycling of building materials is beneficial? Discuss. [8]

b) Discuss the Life cycle analysis in brief.

[8]

OR

Q12) a) Explain the following:

[3+3+3=9]

- i) Operation Phase.
- ii) Construction Phase.
- iii) Use of Foudry sand.
- b) Explain in details about Construction waste management. [7]

