JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-3 EXAMINATION, JUNE-2016

M.Tech (Construction Management) II Semester

COUF	RSE CODE: 10M11CE215	MAX. MARKS: 35	
COUF	SE NAME: Sustainable Design and Construction		
COUF	RSE CREDITS: 3	MAX. TIME: 2 HRS	
Note:	All questions are compulsory. Marks are indicated against question Carrying of mobile phone during examinations will be treated as computer of the computer of		
1.	What are your suggestions for foundation and framing system of g	reën homes? How heat	
	and moisture movement can be controlled in such homes.	(6)	
2.	Explain the following techniques of green construction: (i) earth tunnel, (ii) geothermal		
	heating and cooling and (iii) earth berming.	(6)	
3.	What is pervious concrete? What are the advantages and limitations of using pervious		
	concrete for construction? Show a typical section of pervious concrete	rete sideway. (6)	
4.	Write short note on the following green building materials:		
	(i) Wool bricks, (ii) Solar tiles, and (iii) Paper ins	ulation. (6)	
5.	What do you understand by solar HVAC technology? Discuss the working of the		
	following in relation to this technology: (i) Photo-voltaic cooling and (ii) Solar open loop		
:•	air conditioning using desiccants.	(6)	
6. Explain the various steps involved in the process of construction waste management.			
		(5)	
