PARUL UNIVERSITY FACULTY OF ARCHITECTURE & PLANNING B.Arch, Summer 2018-19 Examination

B.Arch. Summer 2018-19 Examination		
Semester: 4 Date: 22/05/2019		
Subject Code: 01101255		Time: 10:00 am to 12:00 pm
Subject Name: Architecture & Environment IV Total Marks: 50		
Instructions:		
1. All questions are compulsory.		
4. Draw suitable sketches wherever required.		
What	is Rain water harvesting system? Explain the components of roof top r	ain water harvesting (10)
system	n with sketches.	
Short	Notes: (Attempt any five out of six)	(20)
a)	Climate Change	
b)	Passive cooling.	
c)	Ecosystem and its Components	
d)	Life cycle Analysis	
e)	Renewable energy	
f)	Carbon Footprint	
Q.3 Explain Briefly: (Attempt any five out six) ((10)
a)	U-VALUE of any building material.	
b)	Passive Strategies for buildings in hot and dry climate.	
c)	IGBC rating system	
d)	Solar Heat Gain Coefficient (SHGC)	
e)	LEED Rating system	
f)	Different shading devices used in Buildings for shading. Explain with	n sketches.
Q.4 Answer the following: (Any two) (10)		
a)	Energy Efficiency in Building.	
b)	Discuss energy pyramids with neat sketches	
c)	Enlist tangible and intangible benefits of compliance with IGBC Ratin	ng System
	ct Code ct Name ctions: question ines to the suitable w suitable What system Short a) b) c) d) e) f) Explat a) b) c) d) e) f) Explat a) b) c) d) e) f) Explat a) b) c) d) e) f) Explat a) b) c) d) e) f) Explat a) b) c) d) e) f) Explat a) b) c) d) e) f) f) f) f) f) f) f) f) f) f) f) f) f)	 ter: 4 ct Code: 01101255 ct Name: Architecture & Environment IV ctions: questions are compulsory. res to the right indicate full marks. te suitable assumptions wherever required. w suitable sketches wherever required. What is Rain water harvesting system? Explain the components of roof top r system with sketches. Short Notes: (Attempt any five out of six) a) Climate Change b) Passive cooling. c) Ecosystem and its Components d) Life cycle Analysis e) Renewable energy f) Carbon Footprint Explain Briefly: (Attempt any five out six) a) U-VALUE of any building material. b) Passive Strategies for buildings in hot and dry climate. c) IGBC rating system f) Different shading devices used in Buildings for shading. Explain with Answer the following: (Any two) a) Energy Efficiency in Building. b) Discuss energy pyramids with neat sketches