

Dr. Parman

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-3 EXAMINATION- MAY -2018
M.Tech II Semester

COURSE CODE: 10M11CE215

MAX. MARKS: 35

COURSE NAME: SUSTAINABLE DESIGN AND CONSTRUCTION

COURSE CREDITS: 03

MAX. TIME: 2 HR

Note: All questions are compulsory and carry equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. What do you mean by 'Environmental Ethics'. Mention the various concerns related to Environmental Ethics. What are its subdivisions as described by Christie?
2. What are the various basic strategies against water conservation? Explain the various level of measures recommended by US EPA for water conservation and its reuse.
3. Describe in brief the various emerging fuel/power source technologies for sustainability in transportation.
4. Explain the various elements of green building design. Also give a brief on various controls required during ventilation provision.
5. Write a descriptive note over different green and sustainable strategies to be adopted during infrastructure development.
6. What are the sources of contaminants deteriorating indoor air quality. Describe the measures that can be adopted to improve the same.
7. Explain the components and working of HVAC system with the help of a neat labeled figure.