

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

## TEST-2 EXAMINATION - 2016

M.Tech. 2<sup>nd</sup> Semester (Construction Management)

COURSE CODE: 10M11CE215

MAX. MARKS: 25

COURSE NAME: Sustainable Design and Construction

MAX. TIME: 1.5 Hrs

COURSE CREDITS: 03

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NOTE: All questions are compulsory. Write concisely. All questions carry equal marks.

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1. Give differences in clay bricks and fly ash bricks in tabular form for the following parameters: (i) Production process and (ii) Engineering properties.
2. What are the major and minor components of construction waste? Discuss the ways in which this waste can be reused and recycled. How can we dispose off the remaining waste?
3. What is the significance of passive design in HRB's? Explain following components of passive design (i) Building envelope, (ii) Natural ventilation, (iii) Day lighting and (iv) Passive heating cooling and thermal storage.
4. What are flyash and red mud? Give their chemical compositions. How do flyash and red mud improve engineering properties of ferrocement & OPC and mortar & bricks, respectively?
5. Suggest any ten practices to improve indoor air quality of buildings.

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