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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- April 2019

B.Tech VII Semester

COURSE CODE: 10B13CE744

MAX. MARKS:25

COURSE NAME: Advanced Concrete Technology

COURSE CREDITS: 3

MAX. TIME: One Hour Thirty Minutes

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

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1. Under what conditions may salt solutions damage concrete without involving chemical attack on Portland cement paste?
2. What is the significance of adding polymer to the concrete and in how many ways polymer can be added in concrete?
3. From surface to the interior surface of concrete, what is the typical pattern of chemical attack in sea structures?
4. What is the principle advantage of using fibre reinforced concrete? Explain how the concrete acquires this property.
5. In high rise buildings what are the advantages of constructing shear walls with high strength concrete.