

Dr Saunak

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST -3 EXAMINATION- December-2021
B.Tech 8th Semester

COURSE CODE: 10B13CE833

MAX. MARKS:35

COURSE NAME: ADVANCED CONCRETE TECHNOLOGY

COURSE CREDITS: 3

MAX. TIME: Two Hours

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

Q1. Discuss the importance of steel fiber reinforced concrete in comparison to conventional concrete. Also emphasis on the factors affecting the strength of SFRC [7]

Q2. What are the most common chemical causes affecting concrete durability? Discuss any one of them in detail. [7]

Q3. Discuss carbonation induced corrosion with chemical equation in detail. [7]

Q4. Explain the mechanics of drying shrinkage in context to disjoining pressure [7]

Q5. Discuss maxwell model of creep mechanics and deduce the constitutive equations [7]