

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2023

Ph.D-I Semester (CE)

COURSE CODE (CREDITS): 11M1WCE332

MAX. MARKS: 35

COURSE NAME: Advances in Construction Materials

COURSE INSTRUCTORS: Dr. Amardeep

MAX. TIME: 2 Hours

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*Note: (a) All questions are compulsory.*

*(b) Marks are indicated against each question in square brackets.*

*(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems*

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1. Differentiate high performance concrete from self compacting concrete. (6)
2. What do you mean by HPC? Please explain the methods to achieve high performance along with its advantages and disadvantages. (6)
3. What are the geotextiles? Explain its advantages and disadvantages along with its types in detail. (6)
4. Answer the following questions
  - (a) What do you mean by LATEX? Make a list of latex types. (2)
  - (b) After the application of top coat with Fibfloor SL the curing time for ....., ..... and ..... (1)
  - (c) Make a list of the specifications for Fibfloor SL. (2)
5. Why to choose epoxy floors? What are the different problems can be encountered while using the epoxy? Discuss the different causes of the same also. (6)
6. Make a list of 10 innovative construction materials and discuss their application also. (6)