

Dr Amarday

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- April 2019

M.Tech IInd Semester

COURSE CODE: 18M1WCE231

MAX. MARKS: 25

COURSE NAME: Planning, Design and Construction of Rural Roads

COURSE CREDITS: 3

MAX. TIME: 01:30 Hr

*Note: Attempt all the questions. Carrying of mobile phone during examinations will be treated as case of unfair means.*

1. Make a list of different types of bitumen along with their different properties and advantages. (6)
2. Justify the use of baggase ash as the replacement of cement on the basis of their properties. Explain different types of stresses occurred in rigid pavement and their remedies also. (4)
3. Explain the applications of flyash in highway engineering in detail. (5)
4. What do you mean by transition curves? How will you determine the minimum length? (5)
5. What are the different special considerations in hill road design? What will be the design service volume for different road types in hilly terrain? (5)