

Birla Institute of Technology & Science, Pilani- Pilani Campus

First Semester 2022-2023

Mid Semester Exam

Course No: CE G547

Nature of Exam: Closed Book

Duration: 90 Min

Course Title: Pav. Fai. Eva. & Reh.

Max. Marks: 50 (Weightage: 30%)

Date of Exam: 02/11/2022

Note:

1. All questions are compulsory.
 2. Figures to the right indicate full marks
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Q.1	Write the difference between bonded and unbonded overlay [5]
Q.2	Explain the causes of rutting in bituminous mixes [10]
Q.3	Explain the causes of faulting in concrete layer of rigid pavement [8]
Q.4	Explain the expected properties of sealants used for joint resealing/refilling [6]
Q.5	Explain the factors affecting the freeze-thaw damage in concrete layer of rigid pavement [8]
Q.6	Explain the advantage and disadvantage of MERLIN [6]
Q.7	Explain the surface material properties affecting the friction on bituminous layer [7]