

School of Engineering**M.TECH Transportation Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - G1PD206T - Highway construction practices**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | List down the component layers of rigid pavement. | K1(2) |
| 2) | What are the uses and limitations of sheep-foot rollers? | K2(4) |
| 3) | Briefly explain with neat sketches the method of construction of construction joints. | K2(6) |
| 4) | Mention the problems of constructing high embankments over weak foundations. Explain the measures that can be adopted for highway construction. | K3(9) |
| 5) | What are the special features, advantages and limitations of interlocking concrete block pavements? | K3(9) |
| 6) | Mention the specification of materials, construction steps and quality control checks for laying bituminous concrete surface course. | K5(10) |
| 7) | Mention the specification of materials, construction steps and quality control checks for laying dense bituminous macadam binder course. | K4(12) |
| 8) | Mention the specifications and construction steps for wet mix Macadam base course. | K5(15) |
| 9) | What are the objectives of highway maintenance? Also, mention the causes of distresses in the pavements. | K5(15) |
| 10) | Mention the specification of materials, construction steps and quality control checks for the construction of CC pavement slab. | K6(18) |