

[illegible]

SECTION-B

2. Briefly outline the IRC recommendations for determining the :
 - a) Thickness of slab
 - b) Spacing of joints.
3. Differentiate between Flexible pavement and Rigid pavement.
4. A sub grade soil has following properties, Soil passing 0.075mm sieve= 60%, LL=55%, PL=45%. Design pavement section by GI method for heavy traffic with 400 commercial vehicles per day.
5. What are the various wheel load factors to be considered in pavement design? Explain each in detail.
6. How is the thickness of flexible overlay on flexible pavement determined?

SECTION-C

7. Describe step by step procedure for designing a Flexible Pavement with IRC method.
8. Explain briefly the Marshall method of Bituminous Mix design.
9. Design the reinforcement for a 12cm thick, simply supported RCC pavement. The contraction joints are spaced at 12m intervals. The pavement width is 7.5m, comprising of two lanes. Allowable stress for steel is 3000kg/cm^2 . Take $f = 1.5$.

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