Please derive the length requirement of transition curve,  $L_c = \frac{v^3}{PR}$ . [where, P: rate of

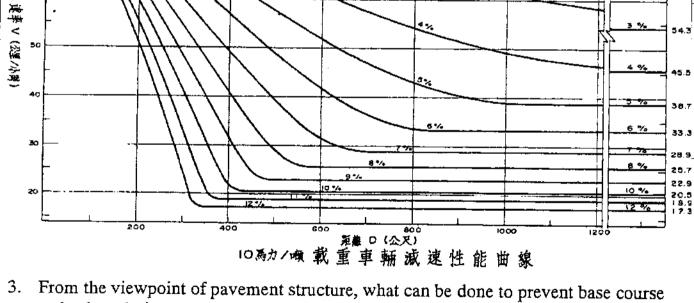
centrifugal force; v: vehicle speed; R: radius of circular curve; centrifugal force

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運輸工程

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試題



- 4. Rail is normally fastened on sleepers with a 1/20 inclination. What is the purpose of the inclination ? (10%)
- 5. Please itemize the functions of ballast. (10%)6. Please explain the definition of the "turnout number" (10%)

and subgrade from water infiltration ? (10%)

92學年度國立成功大學研究所招生考試

 $F = \frac{mv^2}{R}$  (15%)

所有題目均可以用中文或英文作答。

(背面仍有題目,請繼續作签)

7. According to FAA

An airport is classified as C-III. Please explain what C-III means (5%) What is the meaning and requirement of wind coverage for a standard airpor t? (5%)

- 8. Please state the criteria of site selection for a new airport. (10%)
- 9. Please explain the following terminologies (10%)
  - a. HOV lane
  - b. ITS