

## Highway Sight Distance

- 1) a. Define sight distance and state its types.
  - b. Derive an expression for calculating the braking distance in terms of vehicle speed, coefficient of friction, and the grade on which a vehicle operates.
  - c. What is the only case that you may use Passing Sight distance in the design?
  - d. What should be the length of braking skid marks for a car traveling at a speed of 90 km/h if it has to stop to avoid an accident?
- 2) Calculate the Stopping Sight Distance (SSD) required on a highway for a design speed of 80 km/h, assuming that the perception and reaction time is 2.5 seconds and the coefficient of longitudinal friction ( $f_1$ ) is 0.30. If the pavement becomes so wet that,  $f_1$ , is reduced to 0.25, what will be the required SSD? What is the effect of 6% upgrade on the SSD calculated before?
- 3) A vehicle initially traveling at 150 km/h skids to a stop on a 3% downgrade, taking 200 m to do so. What is the coefficient of friction on this surface? What should the grade be if the coefficient of friction is 0.40?
- 4) A vehicle operating on an urban road with a speed limit of 80 km/h had a collision with a vehicle, which moved from an intersection road with a stop sign. The skid marks at the site of the accident were 65 meters in length and the pavement was dry. Which vehicle was at fault and why?
- 5) Determine the Passing Sight Distance for a two-lane two-way highway given the following information:
  - Average speed of the slow vehicle = 60 km/h
  - Average speed of the passing vehicle = 75 km/h
  - Average acceleration rate = 2.5 km/h/sec
  - Preliminary delay time = 3.0 sec.
  - Left lane occupancy time = 7 sec.

# Highway Maintainer Exam Guide

**Albert A Gayle**



## **Highway Maintainer Exam Guide:**

## The Enigmatic Realm of **Highway Maintainer Exam Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Highway Maintainer Exam Guide** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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