

## KADI SARVA VISHWAVIDYALAYA

## LDRP INSTITUTE OF TECHNOLOGY &amp; RESEARCH, GANDHINAGAR.

## M.E. (Civil) Infrastructure Engineering Semester -II

REMEDIAL EXAMINATION

Branch : CIVIL

Date : 02/05/2014

Subject Name: Transportation Facility Design

Sub Code :MECV203

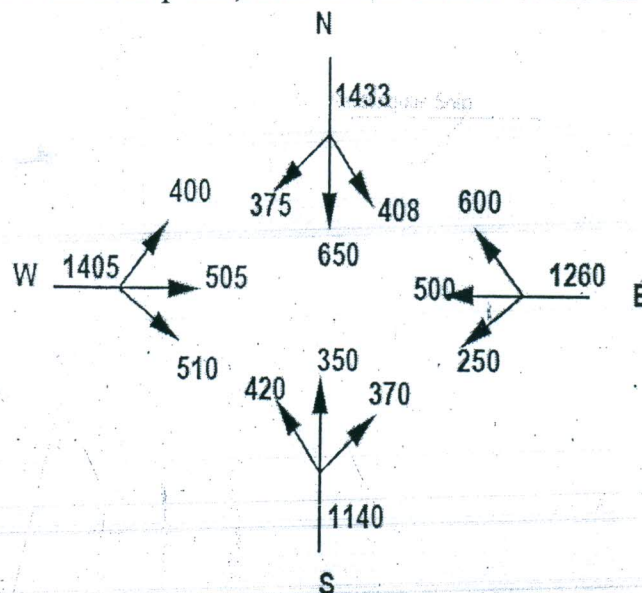
Time : 08:30 AM to 10:00 AM

Max. Marks : 30

**Instructions:** 1) All questions are **compulsory**2) Figures to the **right** indicate full marks.3) Indicate **clearly**, the options you attempt along with its respective question number

- Q.1 (a) Explain the concept of inland port. [5]  
 (b) State the requirement of good port for waterways. [5]

- Q.2 (a) Explain purpose of channelization. [5]  
 (b) The width of a carriage way approaching an intersection is given as 14 m. [5]  
 The entry and exit width at the rotary is 10 m. The traffic approaching the intersection from the four sides is shown in the figure below. Find the capacity of the rotary using Transportation road research lab (TRL) for the given data. The proportion of weaving traffic to the non-weaving traffic in West-North direction be denoted  $P_{WN}$ , in North-East direction as  $p_{NE}$ , in the East-South direction as  $p_{ES}$ , and in the South-West direction as  $p_{SW}$ .



OR

- (b) Discuss various types of signals provided at an intersection.

[5]

- Q.3 (a) Discuss various types of grade separated intersections with the help of sketches.

[5]

- (b) Explain stop, stations and terminals with respect to urban transit.

[5]

OR

- (a) Enlist the terminal functions. Compare the passenger terminals with the goods terminal.

[5]

- (b) Explain the facilities available for pedestrian traffic on urban roads.

[5]