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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.

B.E. 6TH Semester (KSV)

MID SEMESTER EXAMINATION

Date/Day : 02/03/2015, MONDAY

Branch : CIVIL

Sub Code : BECV 602

**Subject Name: DOCKS, HARBOUR AND AIRPORT
ENGINEERING**

Time : 12:00 PM to 1:30 PM

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 Attempt any two [10]**
- (a) What are the characteristics of aircraft? [5]
 - (b) Find the design length of runway required if the length under standard atmospheric conditions is 1800m, the actual elevation of the site is 850m above MSL and the airport reference temperature is 16°C. Maximum effective gradient is 0.5 %. [5]
 - (c) Draw schematic layout of a harbor showing various components. [5]
- Q.2 [5]**
- (a) Briefly discuss the various geometric standards for the taxiway. [5]
 - (b) Define the terms: Apron, Hanger, Pay load, Instrumental runway. [5]
- OR**
- (a) Give the classification of airport as per ICAO. [5]
 - (b) Explain master plan for airport. [5]
- Q.3 [5]**
- (a) Enumerate the classification of harbours with sketch. [5]
 - (b) Define fenders, Breakwater. [5]
- OR**
- (a) Classify the various types of navigation aids. Explain any one. [5]
 - (b) What is the graphical representation for wind intensity? [5]

ALL THE BEST