

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VIII • EXAMINATION – WINTER • 2014

Subject Code: 180602**Date: 29-11-2014****Subject Name: Dock, Harbour and Airport Engineering****Time: 02:30 pm - 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Enlist the constituents of harbour. Draw the sketch of a typical artificial harbour. **07**
(b) Describe aircraft and its characteristics. **07**
- Q.2** (a) Explain in detail advantages and disadvantages of air transport. **07**
(b) What is dredging? Classify the different types of dredging works. List the different types of dredgers. **07**
- OR**
- (b) What is the function of a hanger? Explain the Nose hangers and T hangers with neat sketch. **07**
- Q.3** (a) What is transit sheds. Discuss in brief. **07**
(b) Explain by drawing sketch wind rose diagram type II showing direction, duration and intensity of wind. **07**
- OR**
- Q.3** (a) What are dry docks? Draw sketch of dry graving dry dock. **07**
(b) Give classification of break water and explain any one. **07**
- Q.4** (a) What are the purposes of airport terminal building? Draw layout of airport terminal building. **07**
(b) Write a short note on runway lighting and visual aids. **07**
- OR**
- Q.4** (a) Explain in brief about different runway patterns with neat sketches. **07**
(b) Explain the general requirements of grading. **07**
- Q.5** (a) How the water waves are generated? Explain by drawing sketch shallow waves and deep waves. **07**
(b) Discuss buoys, beacons and light house. **07**
- OR**
- Q.5** (a) Explain exit taxiway and holding apron. **07**
(b) Write short note on harbour maintenance. **07**
