

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) EXAMINATION – WINTER 2018****Subject Code: 180602****Date: 15/11/2018****Subject Name: Dock Harbour & Airport Engineering****Time: 02:30 PM TO 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) Explain in detail advantages and disadvantages of air transport. **07**
(b) Discuss aircraft and its characteristics. **07**
- Q.2** (a) Enlist the constituents of harbour. Draw the sketch of a typical artificial harbour. **07**
(b) What is dredging? Enlist the different types of dredgers and explain any one. **07**
- OR**
- (b) What is the function of a hanger? Explain the Nose hangers and T hangers with neat sketch. **07**
- Q.3** (a) Write a short note on wind rose diagram. **07**
(b) What is dry dock? Discuss with neat sketch. **07**
- OR**
- Q.3** (a) What is transit shed. Discuss in brief. **07**
(b) Give classification of break water and explain any one. **07**
- Q.4** (a) Explain in brief about runway configurations with neat sketches. **07**
(b) Describe runway lighting and visual aids. **07**
- OR**
- Q.4** (a) What are the purposes of airport terminal building? Draw layout of airport terminal building. **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) Explain harbour maintenance. **07**
- OR**
- Q.5** (a) Explain in brief: (1) Exit taxiway (2) Holding apron. **07**
(b) Discuss buoys, beacons and light house. **07**
