

**B.TECH. SEM -VI (CIVIL ) 2014 COURSE (CBCS) : WINTER  
2017**

**SUBJECT : ELECTIVE – I : DOCKS, PORTS AND HARBOURS**

Day : Friday

Date : 24/11/2017

**W-2017-2189**

Time : 10.00 AM TO 01.00 PM

Max. Marks : 60

**N. B. ;**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

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- Q. 1** a) What are the requirements of a good port? (05)  
b) Give the classification of ports and Explain any one. (05)

**OR**

- a) Write a short note on water transportation. (05)  
b) Describe history of port. (05)

- Q. 2** Explain the following terms: (10)

- i) Littoral drift
- ii) Neap tide
- iii) Spring tide
- iv) Fetch
- v) Range of tide

**OR**

- a) What are tidal streams? Why are they called periodic currents? (06)  
b) What are the uses of tides? (04)

- Q. 3** a) How are Harbours classified on the basis of location? (05)  
b) Define a Harbours and explain its necessity. (05)

**OR**

- a) What are the requirements of a good Harbour? (05)  
b) Explain the terms : Berth and Jetties with sketch. (05)

- Q. 4** a) Write a note on facilities and structure of Harbour. (05)  
b) What are the different types of break water? Under what broad conditions will you suggest a vertical break water? (05)

**OR**

- a) What are the factors governing the height of a break water? (05)  
b) Write a critical note on breakwater failures. (05)

- Q. 5** a) Explain the term modernization of port. (05)  
b) Write note on lifting and loading unloading (RORO) facilities. (05)

**OR**

- a) Define 'Dredging'. Explain the reasons for its adoption. How is the dredged material disposed? (10)

- Q. 6** a) Explain Role of port development and national policy. (05)  
b) Explain the term Marine Pollution in port development. (05)

**OR**

- a) Write a short note on public and private sector for port development. (05)  
b) Explain the term environmental aspects regarding port development. (05)

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