

Total page No.....1.....

Roll No .....

MID SEMESTER EXAMINATION

March:2019

SIXTH SEMESTER (CIVIL)

B.Tech [civil ]

Sub: Tunnel, ports and harbor engineering

CE- 314

Time: 1.5 Hours

Max. Marks-30

Note :- Answer any five question. Assume any missing data suitably. All questions are equal mark.

1. Explain any six of the following terms:  
(a) Mean sea level (b) Range of tide (c) Flood current and Ebb current (d) Mooring buoys (e) Net capacity (f) Littoral drift (g) Fetch (h) Clapotis.
2. Distinguish between the following  
(a) Spring tides and Neap tides  
(b) Height of the wave and Length of the wave  
(c) Wave of oscillation and Wave of translation  
(d) Gross tonnage and Net tonnage  
(e) Port and Hinder land  
(f) Dry and Wet dock
3. (a) State the factors which govern the choice of site for the harbor  
(b) Differentiate port and harbor.
4. (a) Define break water and give their classification. (b) State the factors which govern the height of a break water.
5. (a) What is the difference between a wet dock and tidal basin ?  
(c) State the principal forces acting on a gravity wall.
- (6) Explain the followings:  
(a) Quay (b) Wharf (c) Jetty (d) Pier (e) Fender (f) Dolphins.