Tech (Part Time) DEGREE END SEMESTER EXAMINATION, NOV/DEC 2013
CIVIL ENGINEERING BRANCH
SIXTH SEMESTER (REGULATIONS 2009)
PTCE 9041 – TRANSPORTATION ENGINEERING- DOCKS AND HARBOUR

Time : 3 Hours Max Marks : 100

PART –A 10 x 2 = 20 Marks)

1) Define a port.
2) What do you understand by Littoral Drift.
3) Name any two natural and artificial harbour
4) Draw the structure of a Quay wall
5) What are the essential needs of a navigational aid.
6) How is the depth of the sea measured?
7) Discuss the type of waves.
8) What is the functional feature of a Roadstead.
9) Define Coastal Regulation Zone.
10) What is a spring fender?

PART – B (5 x 16 = 80 Marks)

11 Discuss the factors and site investigation of a harbor. (16)

12 a. Explain the primary and subsidiary classification of harbor. (16)

(OR)

12 b. Draw a layout of any one harbor in india, explain its salient features and list available terminal facilities.

13.a. Explain with neat sketches any four types of navigational aids and state their functions.(16)

(OR)

13 b.Explain the objectives and working principle of the following coastal structures with neat sketches,
(i) spring fenders
(ii) floating landing stages
(iii) break waters (16)

14 a. Explain the principle of break waters with its neat sketch. (16)

(OR)

14 b. Explain the working principle of dry dock and wet dock. (16)

15 a. Explain the effect of waves on coastal protection. (16)

(OR)

15 b. Explain the following coastal protection works with neat sketches. (16)
(i) Sea walls
(ii) Riprap
(iii) Groins
(iv) Dolphins