

B.Tech. SEM -VI (Civil) 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: ELECTIVE –I DOCKS, PORTS AND HARBOURS

Day: Friday
Date: 31/05/2019

S-2019-2721

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.

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- Q.1 a) Explain the history of ports and harbours. (05)**
b) Discuss the development of port (05)

OR

- Q.1 a) Explain ship construction technology along with international trade. (05)**
b) Discuss the port development with Indian Scenario. (05)

- Q.2 a) Explain concept of generation of waves and tides. (05)**
b) Explain propagation and form of wave in coastal zone. (05)

OR

- Q.2 a) What is the global tide phenomenon? (05)**
b) State types of tides and explain concept of wave tranquility. (05)

- Q.3 a) Define: (05)**
i) Approach channel ii) Marker Buoys
ii) Berth iv) Jetties
b) Explain Breakwater layout. (05)

OR

- Q.3 a) Explain maintenance of ports and harbours. (05)**
b) Define: (05)
i) Slipway ii) Locks iii) Dry docks

- Q.4 a) Explain general design aspects in marine structure. (05)**
b) Explain in break waters layouts and types. (05)

OR

- Q.4 Define: (10)**
i) Wharves ii) quays iii) Piers heads
iv) Dolphin v) fenders

- Q.5 a) Discuss general design aspects of port development. (05)**
b) Explain Breakwater functions and general design principles (05)

OR

- Q.5 a) What do you mean by lifting and loading unloading (RORO) facilities? (05)**
b) What is the significance and objective of Dredging and disposal technology? (05)

- Q.6 a) Explain role of port development. (05)**
b) Explain national policy of port development. (05)

OR

- Q.6 a) Explain marine pollution. (05)**
b) Explain environmental aspects in port development. (05)

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