



B.E DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Fourth Semester

CIVIL ENGINEERING

CEE110: Railways Docks & Harbors And Airports

Time: Three Hours

Maximum Marks: 100

Answer all the Questions

PART A (10 x 1 = 10 Marks)

1. The survey which is a detailed study to forecast future traffic is
 - a) Traffic survey
 - b) Land survey
 - c) Marine survey
 - d) Topographic survey
2. The instrument measures co-ordinates of any point anywhere on the globe is
 - a) EDM
 - b) GPS
 - c) GIS
 - d) TS
3. The signals used to regulate shunting of vehicles in station yards
 - a) Shunt signal
 - b) Trap indicator
 - c) Colour light signals
 - d) Repeater signal
4. The hump provided on the loop to stop any over shooting train
 - a) Fouling hump
 - b) Buffer hump
 - c) Sand hump
 - d) Concrete hump
5. The technique which is used to measure the depth of sea.
 - a) Sounding
 - b) Shoals
 - c) Tidal currents
 - d) Breakwater
6. The graving dock is also known as
 - a) Dry dock
 - b) Wet dock
 - c) Floating dock
 - d) Vessel
7. International airport authority of india was set up in
 - a) April 1975
 - b) April 1972
 - c) April 1985
 - d) April 1992
8. What is the maximum longitudinal gradient of runway as per ICAO recommendations?

23. a) Explain the factors to be considered while planning and designing a harbor. (7)
- (OR)**
- b) Explain wave effects on costal structures with reference to a case study. (7)
24. a) (i) Explain various surveys conducted and data collected for an airport site selection (7)
- (ii) Explain the procedure for orienting runways (7)
- (OR)**
- b) Design an exit taxiway joining a runway and a parallel main taxiway. The angle of turn is 25° and the turns off speed is 75kmph. Draw a neat sketch and show all the design elements. (7)
25. a) (i) Explain with neat sketches, the various markings on runways. (7)
- (ii) Explain the necessity of airport lighting (7)
- (OR)**
- b) (i) Explain the network of air traffic control. (7)
- (ii) Discuss the Enroute aids available for a flight movement from one airport to another. (7)
