PVP 14

Code: CE6T5

III B.Tech - II Semester – Regular Examinations – May 2017

TRANSPORTATION ENGINEERING - II
(CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

a) Discuss in brief the modes of transportation.
b) Discuss track specifications of Indian railways.
c) Enumerates the forces acting on the track.
d) Mention the requirements of ideal sleeper.
e) Mention the classification of airport obstructions.
f) Write about the gradient.
g) Write down the disadvantages of crossing.
h) Briefly explain about point and crossing.
i) Write down the components of Aeroplane.
j) Enumerate the features of harbor.
k) List out types of water transportation.

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Draw a typical single line railway track in cutting and embankment showing full details. 8 M

b) Enumerate the factors which affect the choice of the railway gauge. 8 M

3. a) Discuss the merits and demerits of the following types of sleepers. 8 M

i. Steel sleepers
ii. Concrete sleepers
iii. Timber sleepers
iv. Cast iron sleepers

b) Compare the suitability of different materials as ballast used on railway tracks. 8 M

4. a) Explain the following terms with neat sketches. 8 M

i. Scissors cross over
ii. Diamond cross over
iii. Tandem or Double turn out
iv. Double junctions

b) Explain the level crossing and types of crossings. 8 M

5. a) Explain the steps involved in runway orientation. 8 M

b) What is the design factors affecting flexible pavements of airport? 8 M

6. a) What are the requirements of good port? 8 M

b) Explain the process of dredging. 8 M