

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
Question Bank (K-Scheme)

Name of subject: Highway Engineering
Subject code: 313323
Course: CE

Unit Test: II

Semester: III

Unit IV (Traffic Engineering)

2 Marks

1. Define TVS & PCU.
2. Draw any two road signs with name.
3. State Grade & Grade separate intersections.
4. State the objects and uses of traffic volume study.

4 Marks

1. Define PCU and list four factors affecting passenger car unit.
2. State and explain traffic volume counting.
3. Draw following road signs:
 - a. Speed limit
 - b. No parking
 - c. Narrow bridge
 - d. Hair pin bend left
4. Draw Traffic Signs for
 - a. Left Turn Prohibited
 - b. No Parking
 - c. Speed Limit – 60 Km/h
 - d. Width Limit – 2 m
 - e. Narrow Bridge
 - f. Compulsory Ahead or Turn Right
5. Explain Rotary Island (Traffic Island) with a neat sketch.
6. State the various types of road intersection. Explain in one in detail.

Unit V (Road drainage and Maintenance)

2 Marks

1. Define drainage. Also state various types of drainage.
2. State the necessity of road drainage.

3. State the requirements of good drainage system.
4. Enlist the various types of defects in concrete roads.

4 Marks

1. Explain Surface and Sub- surface drainage.
 2. Explain Cross drainage.
 3. List out preventions of landslides.
 4. State the types of defects in bituminous roads and state their causes.
 5. Explain Mud Pumping.
 6. State the road maintenance. Explain any one.
 7. Explain with sketches defects in cement concrete road.
 8. State any four defects with their causes observed in WBM roads.
 9. State the procedure for following-
 - a) Sealing of joints and cracks
 - b) Patching of damaged concrete surface
 - c) Repair of potholes in bituminous roads.
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