**BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY**

**Question Bank (I-Scheme)**

**Name of subject: Highway Engineering Unit Test: II**

**Subject code: 22302 Course: CE**

**Semester: III**

**Unit IV (Overview to Highway Engineering)**

**2 Marks**

1. Define TVS & PCU.
2. Draw any two road signs with name.
3. State Grade & Grade separate intersections.

**4 Marks**

1. Define PCU and list four factors affecting passenger car unit.
2. List any four causes of Accidents.
3. Draw following road signs:
   1. Speed limit
   2. No parking
   3. Narrow bridge
   4. Hair pin bend left
4. Draw Traffic Signs for
   1. Left Turn Prohibited
   2. No Parking
   3. Speed Limit – 60 Kmph
   4. Width Limit – 2 m
   5. Narrow Bridge
   6. Compulsory Ahead or Turn Right
5. Explain Rotary Island (Traffic Island) with a neat sketch.
6. List causes of Accident. Draw Collision diagram for Head –on-Collision.

**Unit V (Geometric Design of Highway)**

**2 Marks**

1. List various types of curves provided on Hill Roads.
2. State the necessity of providing catch water drain in Hill Roads.
3. State two causes of Landslides.

**4 Marks**

1. Draw a neat sketch of hill road showing its components
2. Explain preventive measures that can be taken to avoid landslides in hilly area.
3. List out preventions of landslides

**Unit VI (Construction of Road Pavement)**

**2 Marks**

1. State the classification of highway maintenance.
2. Define Drainage.
3. State any two importance of drainage.

**4 Marks**

1. Draw a neat sketch of subsurface drainage.
2. Draw a neat sketch (Plan & Section) of longitudinal drain and Cross drain.
3. Draw catch water drain.
4. State causes of failure of WBM road.
5. State causes of failure of Bituminous road.
6. Explain need of highway maintenance.
7. Explain special repair for flexible & rigid pavement.

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