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**B. E. (Civil Engineering) (Semester - VIII) Examination, May - 2014**  
**TOWN PLANNING AND TRANSPORTATION ENGG. (New)**  
**Sub. Code : 49173**

Day and Date : Thursday, 15 - 05 - 2014

Total Marks : 100

Time : 2.30 p.m. to 5.30 p.m.

- Instructions :
- 1) Attempt any **THREE** questions from each Section.
  - 2) **Figures to the right indicate full marks.**
  - 3) **Illustrate your answers with neat sketches wherever possible.**
  - 4) **Assume suitable data wherever necessary and mention it clearly.**
  - 5) **Use of programmable calculator is not allowed.**

**SECTION - I**

- Q1) a)** Explain in brief the important features to be considered in the selection of a site for an ideal town, with brief explanation. **[8]**
- b) Enlist the town planners in modern era who had their contributions for developing important town planning theories. Describe any ones contribution in detail. **[8]**
- Q2) a)** Explain in detail different surveys to be conducted to collect the data necessary to prepare a town base map in town planning. **[8]**
- b) Describe in detail the theory of urban renewal and different steps of urban renewal programme. **[8]**
- Q3) a)** What are objects of Development Control Rules in town planning ? Describe any one Development Control Rule in detail. **[8]**
- b) Explain in brief necessity of Land Acquisition Act. Describe its salient features. **[8]**

**P.T.O.**

Q4) Write detailed notes on Any Three -

- a) Indus Valley Civilization.
- b) Shoe string development.
- c) Principles of village planning.
- d) Town aesthetics.

### SECTION - II

- Q5) a) Draw a cross section of a permanent way. Explain in brief the basic functions of its various components. [8]
- b) What is the necessity of geometric design of a railway track ? Enumerate the significant features of design of a railway track. [8]
- Q6) a) Explain the necessity of maintaining railway track. List the various items of maintenance. [8]
- b) Describe any modern trend or technique used in railways in detail. [8]
- Q7) a) How bridges are classified based on different criteria ? Explain them in brief. [6]
- b) Define economic span and waterway with reference to bridge. Explain their significance in bridge design. [6]
- c) Explain general principles of design of bridge foundation. [6]
- Q8) a) Describe in detail how maximum flood discharge is calculated for bridge design. [8]
- b) Define bearing of a bridge. Explain its purposes and enlist its different types. [8]

