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B.E. (Civil Engineering) (Semester - VIII) Examination, April - 2016

TOWN PLANNING AND TRANSPORTATION ENGINEERING

Sub. Code : 49173

Day and Date : Sunday, 17 - 04 - 2016 **Total Marks : 100**

Time : 03.00 p.m. to 06.00 p.m.

Instructions :
1) **Attempt any three questions from section I and Section II each.**
2) **Figures to the right indicate full marks.**
3) **Draw neat sketches wherever needed.**
4) **Assume suitable data wherever necessary.**
5) **Use of programmable calculator is not allowed.**

SECTION - I

Q1) a) Describe in detail necessity, scope and principles of town planning. **[8]**
b) Explain the contribution of different town planners in modern era. **[8]**

Q2) a) Explain how the data collected by different surveys is analyzed in town planning? **[8]**
b) Describe in detail the causes and remedial measures of slum development in towns. **[8]**

Q3) a) Explain the neighborhood unit planning in detail. **[8]**
b) Describe in detail the importance and procedure of Land Acquisition Act. **[8]**

Q4) Write detailed notes on any three. **[18]**

a) Concept of three magnets

b) Use zoning and height zoning

c) Integrated rural development approach

d) Traffic problems in existing cities

P.T.O.

SECTION - II

Q5) a) Describe railway crossing with reference to necessity, component parts and requirements for good crossing. **[8]**

b) Give the classification of station yards and describe any one type in detail with a neat sketch. **[8]**

Q6) a) As an engineer, work out the quantities of materials required per km of track. **[8]**

b) Explain the terms in brief : Permanent way, Super elevation, Ballast, Creep of rails. **[8]**

Q7) a) Draw detailed sectional plan and elevation of a bridge showing all its components and state the functions of each component. **[8]**

b) Derive the formula for economic span of a bridge. Compute the economic span of a T beam bridge from the following data. **[8]**

Span (m)	4	8	12	16
Approx.cost of one span of superstructure (Rs.)	3400	14000	32000	49000
Approx. cost of one span of substructure (Rs.)	44400	46400	46000	47200

Q8) Write detailed notes on any three. **[18]**

a) Erection of steel girder bridges

b) Bridge bearings

c) Requirements of bridge aesthetics

d) Loadings for railway bridges

e) Classification of bridges

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