



R-8031

M. Arch. - I (Sem. II) Examination

May / June - 2010

C-203 : Urban Infrastructure

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. ARCH. - 1 (SEM. 2)

Name of the Subject :
C-203 : URBAN INFRASTRUCTURE

Subject Code No. : 8 0 3 1 Section No. (1, 2.....): NIL

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks.
(3) Neat sketches or illustrations shall carry more credentials.

1 (a) Give definition or explain : 10

- (i) Identify BTO model of PPP.
(ii) Limitations to success of PPP (Public-Private Partnerships)
(iii) Physical and social infrastructure
(iv) Issues in development of infrastructure in Indian context.
(v) Risks in PPP for Infrastructure Projects.

(b) Explain in brief : 10

- (i) Explain step by step development of infrastructure in urban areas.
(ii) Sketch and explain the various street pattern for urban areas.

- 2 Answer in detail : 20
- (a) Explain the urban infrastructure sector and the significance of physical and social infrastructure development in city planning in Indian context. 10
- (b) Explain the factors that have bearing in integrated infrastructure planning or brief the strategies of JNNURM project. 5
- (c) Brief out the metro rail infrastructure for big cities. 5
- 3 Attempt any two : 30
- (a) What is the need of Planning and Management of Infrastructure Development in Urban Areas? Discuss the need for innovative approach in Infrastructure Development?
- (b) Which are the various models of public private partnership and its applications details.
- (c) Discuss any case of physical infrastructure, where efforts are made for better provision of infrastructure in the city. Also critically evaluate how the city has change or benefited. Write the approach policies adopted for such project.
- (d) Discuss how Finance play vital role in infrastructure planning, and evaluate the financing option and agencies of financing infrastructure.
- 4 (a) Work out water requirement for a city of 4 lac population, find maximum hourly demand. 7
- (b) Explain term BOD and COD, mentioned the infrastructure of water treatment and explain functioning of any one. 8
- (c) Attempt any three : 15
- (i) Sketch and explain sewage filtering system
- (ii) Solid waste disposal methods
- (iii) Heath infrastructure
- (iv) Power loads and power development in India
- (v) Storm water drainage system.