



SE-6743

B. E. - III (Sem. - V) (Civil) Examination

April / May - 2011

Building Design & Drawing

Time : Hours]

[Total Marks :

Instructions :

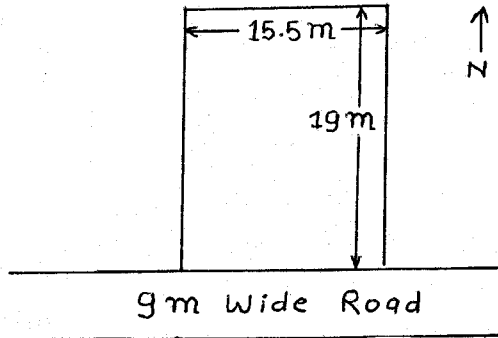
(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. - 3 (SEM. 5) (CIVIL)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BUILDING DESIGN & DRAWING"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="7"/> <input type="text" value="4"/> <input type="text" value="3"/>	Section No. (1, 2,.....) : <input type="text" value="1&2"/>
Student's Signature	

- (2) Draw neat sketch to support your answer.
- (3) Assume suitable data if necessary.
- (4) Give all dimension in figure.
- (5) Weightage will be given to neatness.

SECTION - I

- 1 Plan a detached type building for executive engineer of P. W. D. for the plot as shown in fig.



- (i) Frame the requirements and plan using bubble diagram. 8
- (ii) Draw ground floor plan and schedule of opening. 12
- (iii) Front elevation and work out F. S. I. 8

OR

- (iii) Section passing through staircase. 8
- (iv) Workout C. I. 2
- 2** Attempt any **two** of the following : 10
- (i) Enlist principles of planning and explain any two in detail.
- (ii) Enlist principles of architecture and explain any two in detail.
- (iii) Explain 'Furniture' as principle of planning and list out furniture for Living room and Bed room with its size.
- 3** Attempt any **two** of the following : 10
- (i) What is elevation treatment for buildings, also write about good landscaping.
- (ii) Define F. S. I. Explain importance of F. S. I. State byelaws related to F. S. I.
- (iii) Write byelaws for margin, setback and plinth.

SECTION - II

- 4** Prepare a plan for a nursing home of 25 beds and justify your planning. 15

OR

- 4** Prepare a plan for office building of an executive engineer (PWD) and justify your planning. 15
- 5** Design a dog-legged Staircase and draw plan and sectional elevation _____. 15
- (i) Clear head room = 3.2m (floor height)
- (ii) Thickness of RCC slab = 0.14m
Assume suitable data.

OR

- 5 Draw the perspective view of a single room building of size $6\text{m} \times 3\text{m}$ when station point is 8500 mm from picture plane, height of eye level is 1500 mm from G.L. The total height of room is 3000mm. **15**
- 6 Attempt any two : **20**
- (i) State and define the various perspective drawing elements.
 - (ii) Discuss principles of planning a school building.
 - (iii) Write short note on : "Classification of perspective projection".
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