

[01 - 2211]

II/IV B.E. DEGREE EXAMINATION.

Second Semester

Civil Engineering

BUILDING PLANNING AND DESIGN

(Common with Civil Environmental Engineering and
B.E. + M.E. Dual Degree in Civil Engineering)

(Effective from the admitted batch of 2006-2007)

Time : Three hours

Maximum : 70 marks

Question No. 1 is compulsory.

Answer any THREE from the remaining.

All questions carry equal marks.

1. A residential building is to be planed for a practising advocate with the following requirements. (34)

- (a) Living cum drawing hall.
- (b) Master bed room with toilet.
- (c) Second bed room.
- (d) Kitchen and store.

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(e) Additional bath and WC.

(f) Stair case and Portico.

The dimensions of the site are 15 m × 20 m and the road is on western side, parallel to 15 m side. The plinth area is not to exceed 125 m². Adopt moderate specifications. Draw to a scale of 1 : 50 for following views.

(i) Location of the building in the site.

(ii) Plan of the building

(iii) Sectional elevation

(iv) Front elevation.

2. (a) Explain how you will select a site for the construction of a residential building.

(b) Write short notes on

(i) Housing colonies for different income groups in India.

(ii) Public spaces. (12)

3. (a) What is comfort? List the factors influencing it.

(b) What is meant by orientation of building? Mention some suggestions for good orientation of the building in a tropical climate. (12)

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4. (a) Explain the meaning of circulation diagram, aspect and prospect with reference to a building.
 - (b) What rooms are required for different income groups? Justify your answer. (12)
 5. Discuss the requirements of a residential building to accommodate a family of 6 members. (12)
 6. Explain the building by-laws with reference to
 - (a) Open space requirements
 - (b) Height limitations
 - (c) Plinth area regulations. (12)
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