

Total No. of Questions – [6]

Total No. of Printed Pages: 01

G.R. No.

MARCH 2020 INSEM (T1)

S. Y. B. Tech. (Civil Engineering) (SEMESTER – IV)

COURSE NAME: Archi. Planning & Comp. Aided Civil Engineering Drawing
COURSE CODE: CVUA22184

(2018 PATTERN)

Time: [1 Hour]

[Max. Marks: 20]

Instructions to candidates:

1. Attempt Q.1 **OR** Q.2, Q.3 **OR** Q.4, and Q.5 **OR** Q.6
2. Figures in the square brackets to the right indicate full marks.
3. Use of scientific calculator is allowed.
4. Assume suitable data wherever required and state them clearly.

- Q. 1) (a) What is meant by 'zoning'? State three types of zoning in a city or town along with the significance of each type. [4+4]
C01 (b) Explain the contents of 7/12 extract. State the significance (Utility) of the extract.

OR

- Q. 2) (a) Discuss four objectives and four contents of a D. P. [4+4]
C01 (b) State and briefly explain four major NOCs to be obtained (IOD conditions to be satisfied) by the builder before he can apply for commencement certificate (CC) for a building.

- Q. 3) (a) What are the objectives of building bylaws? Define FSI and VPR. State their significance. [4+4]
C02 (b) Briefly explain 'GRIHA' green building rating system.

OR

- Q. 4) (a) A building with G+1 construction is proposed on a rectangular plot 40 m x 55 m such that built up areas on ground and first floor are 1750 and 400 square meters respectively. If front margin is 4 m and other margins are 3 m each and permissible FSI is 1.0; check whether the Authority will sanction the plan. Give reasons for your answer. [4+4]
C02 (b) State and briefly explain four salient features of a 'Green Building'.

- Q. 5) Draw line plan for a bungalow using a scale of 1 cm = 1m. Plan should contain a living room (6 m x 9 m), a bedroom (5 m x 8 m), kitchen (5 m x 6 m), dining hall (3 m x 4 m), separate bath room (2.5 m x 3.5 m) and W.C. (2 m x 2.5 m). Staircase, verandah, etc. are not compulsory. Show positions of doors and North direction. [4]
C04

OR

- Q. 6) Draw the following as per IS 962:1989 [4]
C04 (i) Revolving door, (ii) Power plug, (iii) Exhaust fan, (iv) Wash basin.

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