

Total No. of Questions : 4]

SEAT No. :

PC381

[6359]-501

[Total No. of Pages : 2

S.E. (Civil Engineering) (Insem)

**BUILDING TECHNOLOGY AND ARCHITECTURAL
PLANNING**

(2019 Pattern) (Semester-III) (201001)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Figures to the right indicates full marks.*
- 3) *Neat figures must be drawn wherever necessary.*
- 4) *Assume suitable data if required.*

Q1) a) Differentiate between **[5]**

- i) English Bond and Flemish Bond
 - ii) Substructure and Superstructure
- b) Enlist the types of buildings according to the National Building Code and discuss any one in brief. **[5]**
- c) Illustrate the purpose and enlist types of Scaffolding. **[5]**

OR

Q2) a) Define the terms: **[5]**

- i) Plinth
 - ii) Queen closer
 - iii) Masonry
 - iv) King closer
 - v) Sill
- b) Describe the characteristics of good building bricks and enlist any four tests performed on the bricks. **[5]**
- c) Write a note on : Slip formwork. **[5]**

P.T.O.

- Q3)** a) Enlist the building planning principles and explain any one in detail. [5]
b) Distinguish between: [5]
i) Built-up area and Carpet area
ii) Building line and Control Line
c) Define Building Bye-laws and discuss its necessity. [5]

OR

- Q4)** a) Define the terms: [5]
i) Station point
ii) FSI
iii) Picture Plane
iv) Aspect
v) Set back distance
b) Illustrate the following Architectural principals. [5]
i) Proportion
ii) Contrast
iii) Unity
iv) Scale
c) A plot owner proposed G+1 construction with 200 sq.mt constructions on each floor, on a plot of size is 20m × 25m. If all margins are 2m and F.S.I. allowed is 1. [5]

Find:

- i) Ground coverage
ii) FSI Consumed
iii) Whether plan will be sanctioned or not.
iv) If not, by how much amount the proposed area will be required to be minimize by the owner, so that the proposal will be sanctioned by the authorities.

