

Total No. of Questions – [3]

Total No. of Printed Pages: 1

G.R. No.

PAPER CODE

U222-221(ESE)

MAY 2022 (ENDSEM) EXAM

S.Y. B. TECH. (SEMESTER - II) – CIVIL ENGINEERING

COURSE NAME: MATERIAL SCIENCE & COMPUTER AIDED DRAWING

COURSE CODE: CVUA22201

(PATTERN 2020)

Time: [1Hr]

[Max. Marks: 30]

(*) Instructions to candidates:

- 1) Figures to the right indicate full marks.
- 2) 'a' part of every question is compulsory
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1 a)** Discuss site plan with a sketch for a residential building [4]
b) Elaborate plan, elevation, section [6]

OR

- b)** A plot owner wants to construct a 2-storey house on a plot of size 20X 15m. The left, right, rear margins and front margin is 3m. Determine total built up area and FSI. Draw a sketch and show all areas [6]

- Q.2 a)** Classify traps. Explain any one with sketch [4]
b) Discuss reverberation. Enlist the materials which can be used in an auditorium for better acoustics. [6]

OR

- b)** Discuss the requirement for designing telecommunication, electrical and smart services in a commercial building [6]

- Q.3 a)** Summarize the requirements of a School building OR [4]
Civil Engg. Dept. building of VIIT Pune Civil Engg. Dept. building of VIIT Pune & with reference to the requirement draw respective line plan in Q.NO.3 b

- b)** Draw a line plan of a school building [6]

OR

- b)** Draw a line plan of Civil Engg. Dept. building of VIIT Pune [6]