

Total No. of Questions – [ 3 ]

Total No. of Printed Pages: 1

G.R. No.

0223 - 221 (ESE)

MAY- 2022( END SEM) EXAMINATION

S.Y.B. TECH. (CIVIL ENGG.) (SEMESTER-II )

COURSE NAME: Material Science & Computer Aided Drawing

COURSE CODE: (CVUA22201)

(PATTERN 2020)

Time: [1 Hour]

[Max. Marks: 30]

**MARKING SCHEME**

Q.1)	a)	1 mark for each correct Point	[6marks]
	b)	1 mark for each correct Point	[6marks]
		OR	
	b)	<b>Plot area= 30X 40 = 1200m<sup>2</sup> ] -1 MARK</b> <b>FSI = 0.8</b> <b>BA=PLOT AREA X FSI</b> <b>= 0.8X1200 = 960m<sup>2</sup> -2 MARKs</b> <b>BA= Area of GF += Area of FF+= Area of 2<sup>nd</sup> F</b>  <b>960= 400+350+ Area of 2<sup>nd</sup> F -1 MARK</b>  <b>Area of 2<sup>nd</sup> F = 960-750</b> <b>= 210m<sup>2</sup> 2 MARKs</b>	[6marks]
Q.2)	a)	1 mark for each correct Point	[4marks]
	b)	1 mark for each correct Point	[6marks]
		OR	
	b)	1 mark for each correct Point	[6marks]
Q.3)	a)	1 mark for each correct Point	[4marks]
	b)	1 mark for each correct Point	[6marks]
		OR	
	b)	1 mark for each correct Point	[6marks]

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PAPER CODE

U223-221 (ESE)

May 2022 (ENDSEM) EXAM

S.Y./ B. TECH. (SEMESTER - II)

COURSE NAME: Material Science &amp; 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) Use of scientific calculator is allowed
- 3) Use suitable data where ever required

Question No.	Question Description	Marks	CO mapped	Blooms Taxonomy Level
Q.1 a	Discuss necessity open spaces with respect to road width	[4]	4	II. Understanding
Q.1 b	Explain 'Roominess' and 'Elegance' with sketch	[6]	4	II. Understanding
OR				
Q.1 b	A bungalow is to be constructed on a plot size 30X 50m with G +1 storey. Permissible F S I is 0.8. The front margin is 4 m and side margin is 3m each . The maximum construction is made on ground floor compute the area that can be constructed on first floor	[6]	4	III Apply
Q.2 a	Discuss sound insulation and list sound insulating materials	[4]	5	II. Understanding
Q.2 b	Briefly explain -Natural ventilation, stack effect and wind effect	[6]	5	II. Understanding
OR				
Q.2 b	Discuss, 'Solar energy systems' for lighting	[6]	5	II. Understanding
Q.3 a	Summarize the requirements of a 'Bank building'	[4]	6	II. Understanding
Q.3 b	Draw line plan of a 'Bank building'	[6]	6	III Apply
OR				
Q.3 b	Draw ground floor line plan of Civil Engg. Dept. building of VIIT Pune	[6]	6	III Apply