

Code No: P18CET10

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE  
(AUTONOMOUS)

III B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH/APRIL-2023  
BUILDING PLANNING AND DRAWING  
(CE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (1X24=24M).

Q.No.	Questions	Marks	CO	KL
1.	<p>Draw the front elevation of the queen post truss roof shown in Fig.1 for full span.</p> <p>Fig:1</p> <p>(or)</p>	[24M]	4	3



2	<p>Draw the plan, section at any location and elevation of the building shown in Fig.2 the foundation was at a depth of 1000 mm from ground level with a width of 1000 mm, consisting with C.C.(1:4:8) 300 mm thick, first, second footing and the basement are with R.R masonry in C.M (1:5) The first footing is with a width of 600mm and a height of 450 mm and the second footing consists of 450mm width and a height of 250mm up to ground level, the basement consists of 450mm width and a height of 450mm. The plinth beam consists of 450mm wide and 150mm depth in R.C.C. The brick work for superstructure consists of 230mm wide in C.M (1:5). The roof is with R.C.C 120mm thick, parapet is having height of 600mm.</p> <p> D<sub>1</sub> 1.25 X 2.15 M T.W. FLUSH DOOR  D<sub>2</sub> 1.00 X 2.15 M T.W. FLUSH DOOR  D<sub>3</sub> 0.75 X 2.15 M T.W. PANELLED DOOR  W<sub>1</sub> 1.65 X 1.35 M T.W. GLAZED WINDOW  W<sub>2</sub> 1.00 X 1.35 M T.W. GLAZED WINDOW.  V<sub>1</sub> 1.00 X 0.50 M T.W. GLAZED VENTILATOR </p>	[24M]	5	4
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### PART-B

Answer any Three Questions in Part-B (3X12=36M)

Q.No.	Questions	Mark	CO	KL
3	a) What are the principles that are under laying building bye laws?	[6M]	1	1
	b) What are the open space requirements for the residential buildings?	[6M]	1	1
4	What is meant by floor area ratio and what are the aspects that are to be considered while specifying the floor area ratio.	[12M]	1	1
5	a) What are the requirements of different purpose rooms of a residential building and their grouping?	[6M]	2	1
	b) What are the considerations and requirements that you will consider while planning for a hostel building.	[6M]	2	1
6	What are the essential features of an English bond? Sketch the front elevation of a one and half brick wall in English bond.	[12M]	3	1
7	a) Sketch the sign conventions for brick work, stone work, cement concrete, timber, sand filling, earth	[6M]	3	3
	b) Compare sloped roof buildings with flat roof buildings.	[6M]	3	1

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