

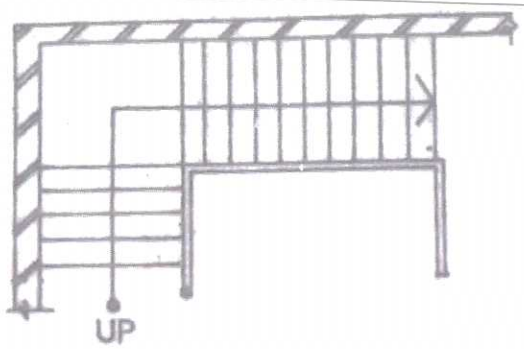
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Revision (15) 3014

Course title: **Building Planning and Drawing**

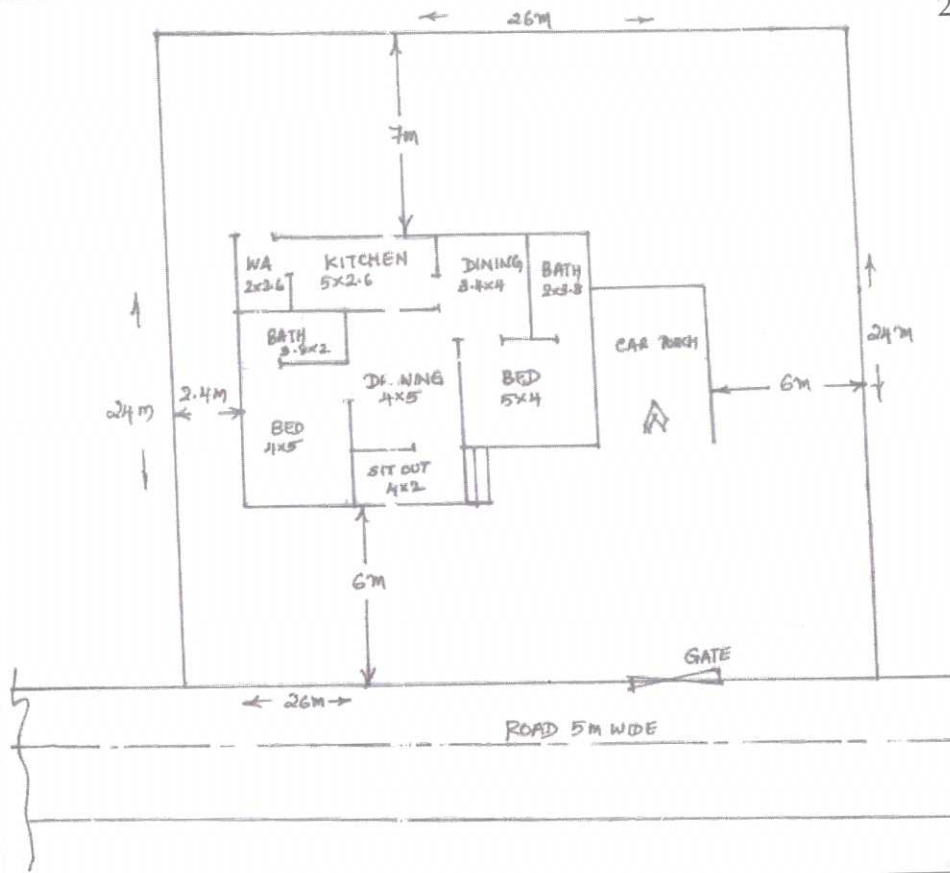
Qst. No.	Scoring indicator	Split up score	Sub Total	Total
PART A				
I (1)	FAR is the quotient obtained by dividing the total covered area on all the floors by the area of the plot.	1.5	1.5	1.5
I (2)		1.5	1.5	1.5
I (3)	Nosing is the part of the tread of a step extending beyond the riser.	1.5	1.5	1.5
I (4)	Intermediate floor in any storey overhanging and overlooking a floor beneath.	1.5	1.5	1.5
I (5)	<ol style="list-style-type: none"> 1. Building plan with all relevant drawings 2. Site plan 3. Service plan 4. Drawing of rain water harvesting system etc., 	1.5	1.5	1.5
I (6)	Theatres, Auditoriums, Exhibition halls	0.5x3	1.5	1.5
I (7)	Setback line is the distance from the property line.	1.5	1.5	1.5
I (8)	Service plan is the plan showing all locations and details of water supply and sewage disposal systems.	1.5	1.5	1.5
I (9)	Soil pipes are those connected to water closets and through which liquid waste including human excreta flows.	1.5	1.5	1.5
I (10)	Placing of the building w.r.t. the geographical direction, direction of wind, the altitude and azimuth of sun is known as the orientation of the building.	1.5	1.5	1.5
PART B				

II (a)

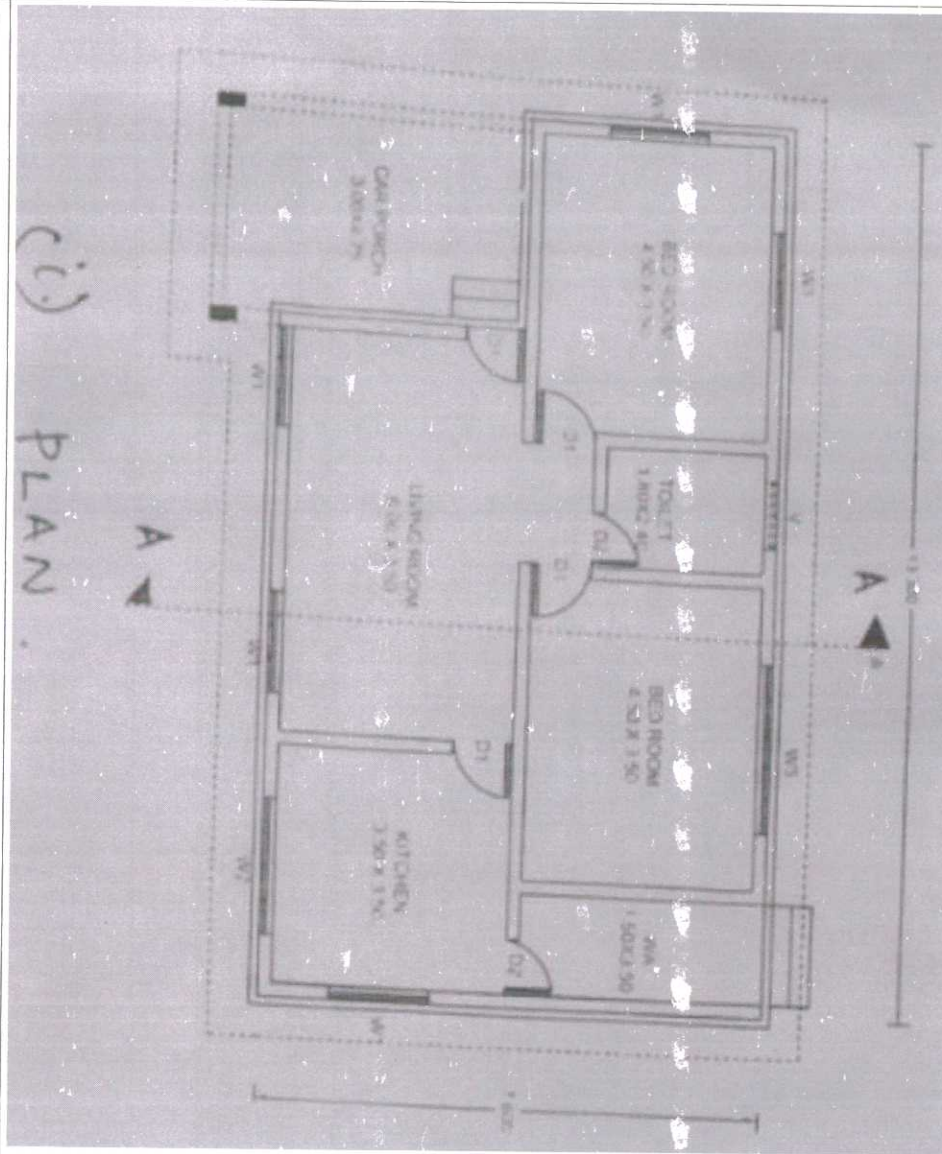
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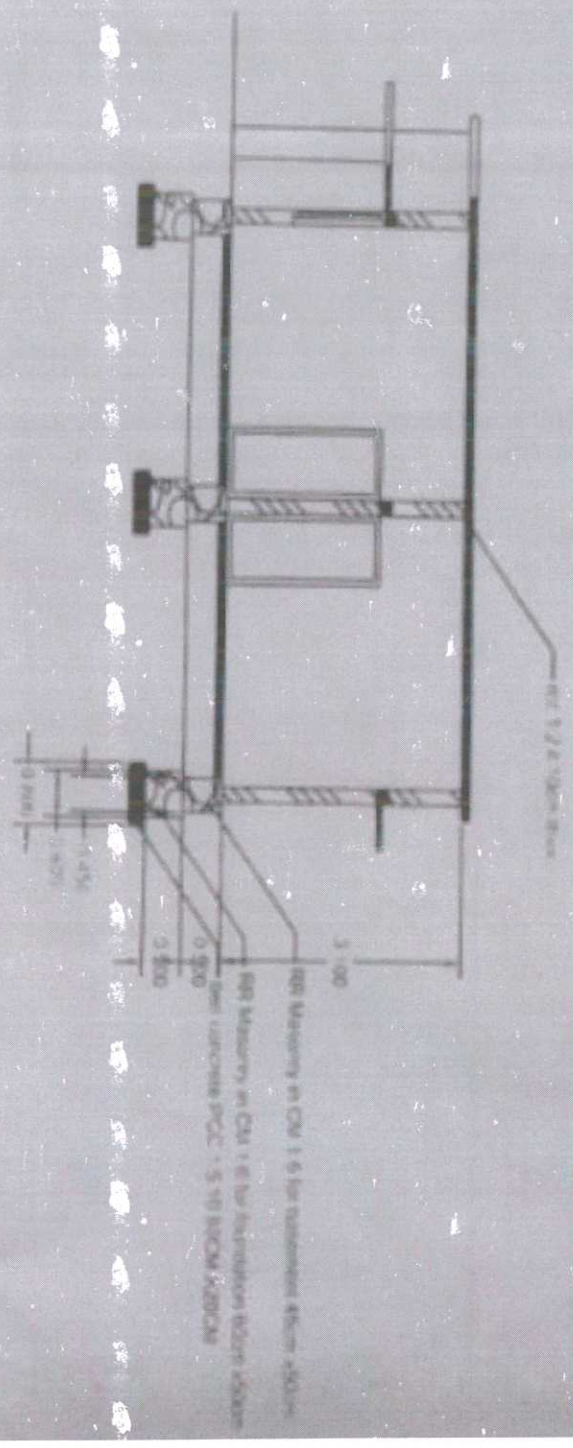
II (b)



Plan – 15
Marks

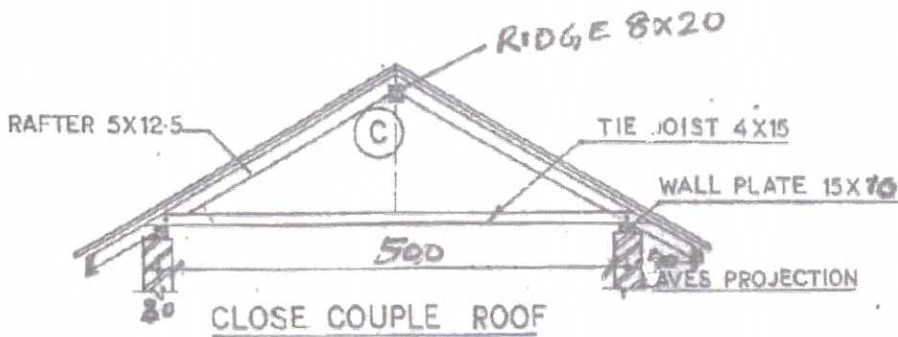
Section –
15 Marks

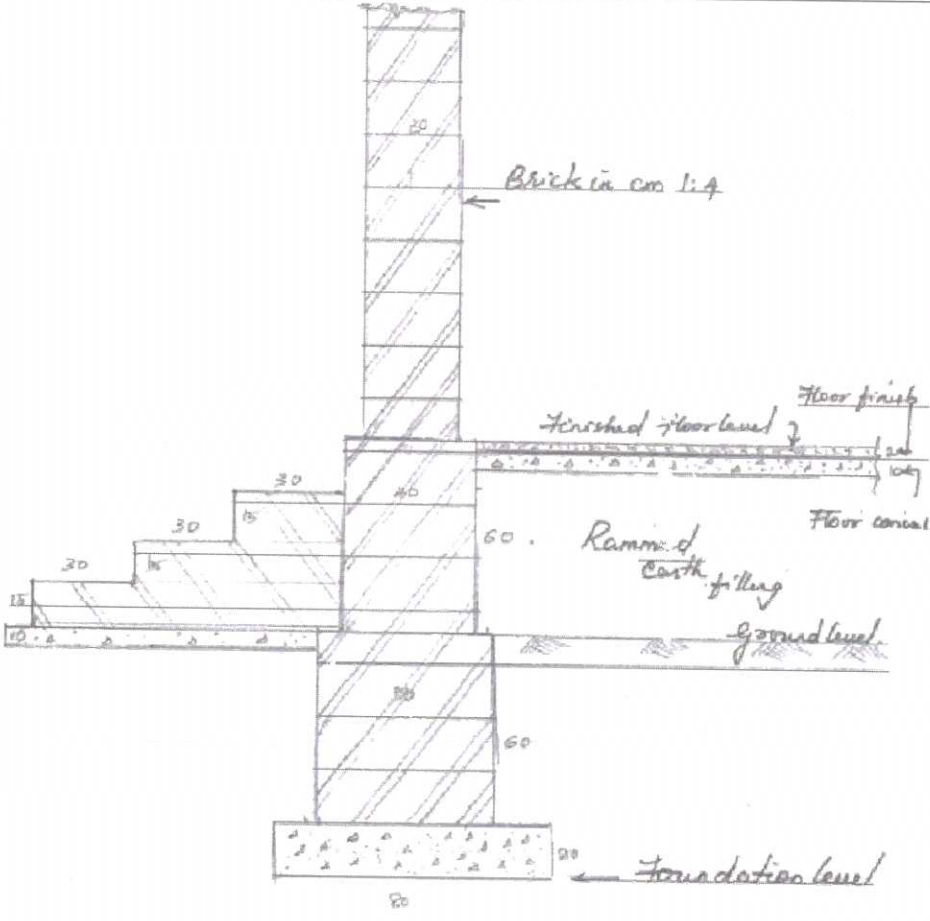
(ii) SECTION ON AA.











Plan – 15 Marks

Section – 15 Marks

III		Scale - 1	15
OR		Figure - 10	Dimension - 4

IV		Fig - 12 Naming and Dimensioning - 3	15
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SYMBOL	NAME
	16 AMPH DPIC SWITCH WITH 2 WAY DISTRIBUTION BASE
	CEILING FAN
	40 WATT TUBE FITTINGS
	SINGLE LIGHT BRACKET
	SINGLE LIGHT PENDANT
OBH	SINGLE LIGHT BATTEN HOLDER
OWT	WATER TIGHT FITTING
	5 AMPS, 3 PIN PLUG
-----	WIRING CIRCUIT
	EARTHING
	ONE WAY SWITCH

QUESTION WISE ANALYSIS

COURSE: Building Planing and Drawing
VERSION: Revision(15) 3014

Qn No	Specific Outcome (as per syllabus)	Module	Content Details	Score
Part-A				
1	2.1.1 ✓	2	Define plinth area, floor area, carpet area, floor area ratio, coverage of building, height of building, building line, set back line, head room, mezzanine floor, basement floor, detached building, and RC houses.	1.5
2	1.1.4 ✓	1	Draw plan, sectional elevation dog legged RCC stair, quarter turn RCC stair	1.5
3	1.1.4 ✓	1	Draw plan, sectional elevation dog legged RCC stair, quarter turn RCC stair	1.5
4	2.1.1 ✓	2	Define plinth area, floor area, carpet area, floor area ratio, coverage of building, height of building, building line, set back line, head room, mezzanine floor, basement floor, detached building, and RC houses.	1.5
5	2.2.2 ✓	2	Draw site plan showing proposed building-septic tank and sock pit - underground sump- compound wall-gate -boundary measurement- exterior open space- orientation-road etc. based on KMBR	1.5
6	2.1.2 ✓	2	Explain classification of buildings and requirements of part of residential, institution and hospital building as per NBC and KMBR	1.5
7	2.1.1 ✓	2	Define plinth area, floor area, carpet area, floor area ratio, coverage of building, height of building, building line, set back line, head room, mezzanine floor, basement floor, detached building, and RC houses.	1.5
8	3.2.4 ✓	3	Draw service plan for residential building showing boundaries of site, proposed building, position of septic tank, sock pit, sullage pit, manholes, garbage disposal system, storm water drain, layout of service line	1.5
9	4.1.1 ✓	4	Draw the plumbing layout plan showing proposed water supply and sanitary lines and position fixtures for a single storey residential building	1.5
10	3.2.4 ✓	3	Draw the plumbing layout plan showing proposed water supply and sanitary lines and position fixtures for a single storey residential building	1.5
Part-B				
II a	2.2.0	2	Produce details of residential building from line sketches and specifications	25
II b	3.2.0	3	Produce details of public buildings from line sketches and specifications	30
III	1.1.5	1	Draw elevation of coupled roof, close couple roof, single collar roof, and double collar roof by showing all the members.	15
IV	1.1.2	1	Draw plan and section strip footing, isolated footing, combined footing	15
V	4.2.1	4	Draw detailed sectional plan, sectional elevation, and side elevation of a slab culvert with return wing wall.	15
VI	4.1.2	4	Draw the electrical layout plan showing proposed electrical fixture points and control points required for a single story residential building	15

Signature

Name, Designation: Vinduja Vijayan, Lecturer in Civil Engineering
Institution: Central Polytechnic College Trivandrum

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SI No	Module	Type of Questions					
		Part A		Part B		Total	
		No of Questions	Score	No of Questions	Score	No of Questions	Score
1	Module 1	2	3	2	30	4	33
2	Module 2	5	7.5	1	25	6	32.5
3	Module 3	2	3	1	30	3	33
4	Module 4	1	1.5	2	30	3	31.5
TOTAL		10	15	6	115	16	130

Signature:

Vinduja Vijayan

Name: Vinduja Vijayan

Designation: Lecturer in civil Engineering

Institution: Central Polytechnic College Trivandrum

3014