

University of Bolton: School of Engineering		Lecturers: Dr A. Berrais				
BEng (Hon) Civil Engineering:		TABLE 1 - Plastic analysis of frames				
Module CIE6001		TABLE 1 - Plastic analysis of frames				
S2 - 2015/2016		TABLE 1 - Plastic analysis of frames				
Student Name		Question 1				
		Plastic Moments				
	h1	h2	L1	L2	Mpc	Mpb
	m	m	m	m	kN.m	kN.m
1	4	2	3	2	100.0	200.0
2	5	3	2	3	120.0	240.0
3	4	3	4.0	2	140.0	280.0
4	5	2	2	3	160.0	320.0
5	4	3	2	3	180.0	360.0
6	4	3	2	2	200.0	400.0
7	5	3	2	2	220.0	440.0
8	5	3	3	2	240.0	480.0
9	5	4	2	3	260.0	520.0
10	6	3	3	2	280.0	560.0
11	6	4	2	2	300.0	600.0
12	6	3	2	2	320.0	640.0
13	4	4	3	2	340.0	680.0
14	4	3	2	3	360.0	720.0
15	4	3	2	3	100.0	200.0
16	4	3	2	3	120.0	240.0
17	3	4	2	2	100.0	200.0
18	3	5	3	2	120.0	240.0
19	3	5	2	2	100.0	200.0
20	5	3	3	3	120.0	240.0
21	4	2	2	2	100.0	200.0
22	4	3	2	2	120.0	240.0
23	5	3	3	3	100.0	200.0
24	6	5	2	3	120.0	240.0
25	6	6	3	3	100.0	200.0
26	6	3	3	2	120.0	240.0
27	4	3	2	3	100.0	200.0

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Student Name		Question 1				
		Plastic Moments				
	h1	h2	L1	L2	Mpc	Mpb
	m	m	m	m	kN.m	kN.m
28	4	2	3	2	100.0	200.0
29	5	3	2	3	120.0	240.0
30	4	3	4.0	2	140.0	280.0
31	5	2	2	3	160.0	320.0
32	4	3	2	3	180.0	360.0
33	4	3	2	2	200.0	400.0
34	5	3	2	2	220.0	440.0
35	5	3	3	2	240.0	480.0
36	5	4	2	3	260.0	520.0
37	6	3	3	2	280.0	560.0
38	6	4	2	2	300.0	600.0
39	6	3	2	2	320.0	640.0
40	4	4	3	2	340.0	680.0
41	4	3	2	3	360.0	720.0
42	3	4	2	2	380.0	760.0
43	3	5	3	2	400.0	800.0
44	3	5	2	2	420.0	840.0
45	5	3	4	6	200.0	400.0
46	4	2	2	2	460.0	920.0
47	4	3	2	2	480.0	960.0
48	5	3	3	3	500.0	1000
49	6	5	2	3	120.0	240.0
50	6	6	3	3	140.0	280.0
	6	3	3	2	270.0	550.0

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BSc (Hon) Civil Engineering:				
Module CIE6001		Lecturers: Dr A. Berrais		
S2 - 2015/2016		TABLE 2 - Plastic Analysis of Beams		
Q2				
Student Name				
Lodas				
	P	w	L	
	kN	kN/m	m	
27	Dove Tom	120.0	72.0	1.0
28	Etchells Anthony	150.0	90.0	2.0
29	Farrell Joseph	250.0	150.0	3.0
30	Hartley L	50.0	30.0	2.5
31	Hughes M	75.0	45.0	2.0
32	Inman Neil	100.0	60.0	3.0
33	Johnson Ramone	50.0	30.0	2.5
34	Jones Danial	230.0	138.0	3.5
35	Jones David G	750.0	450.0	2.0
36	Lyons Stuart	30.0	18.0	1.0
37	Mamagani Hamed	150	90.0	1.0
38	Matthews PS	100	60.0	2.0
39	Mills Jordan	135	81.0	3.0
40	Owens David	120	72.0	1.5
41	Patel Zaid	250	150.0	2.5
42	Rimmer David	150	90.0	3.5
43	Thwaite Paul	75	45.0	4.0
44	Wilson Christopher	50	50.0	1.0
45	Wowk Christopher	120	72.0	1.3
46	Ben Blackwell	230	138.0	1.4
47		75	45.0	1.5
48		50	30.0	1.6
49		1000	600.0	2.0
50		500	300.0	3.0
51		235.0	141.0	2.0
52				