

# Solution

ITEM	KEY			
	111	222	333	444
1	2	3	4	1
2	2	3	1	4
3	5	2	4	1
4	3	2	1	5
5	4	2	1	3
6	1	5	3	4
7	2	3	5	4
8	3	4	1	2
9	5	4	2	1
10	5	1	2	3
11	3	2	5	1
12	2	5	3	4
13	3	5	2	1
14	4	3	2	5
15	1	5	4	2
16	5	1	4	3
17	1	4	3	5
18	1	3	5	2
19	5	4	3	2
20	2	4	1	5
21	1	5	4	2
22	4	2	3	5
23	3	1	5	4
24	4	1	2	3
25	4	1	5	3
26	3	4	3	3
27	2	5	3	5
28	3	2	2	4
29	3	5	5	3
30	1	3	1	2
31	1	4	5	3
32	4	2 X		3
33	3	3	1	3
34	3	3	1	2
35	2	2	4	5
36	1	4	3	5
37	5	5	1	2
38	5	5	5	4
39 X		1	2	5
40	1	1	4	4
41	2	4	4	2
42	4	3	5	5
43	5	5	5	5
44	5	5	2	1
45	2	1	3	1

ITEM	KEY			
	111	222	333	444
46	4	1	4 X	
47	5 X		5	4
48	4	3	3	3
49	5	3	3	1
50	3	2	2	1
51	3	1	3	3
52	2	4	4	5
53	2	3	2	2
54	1	5	1	5
55	1	3	3	3
56	4	2	5	4
57	3	2	2	2
58	5	1	5	1
59	3	3	3	1
60	4	5	2	4
61	2	2	2	3
62	1	5	1	5
63	3	3	1	3
64	5	4	4	2
65	2	2	3	2
66	5	1	5	1
67	3	3	3	3
68	4	4	4	4
69	1	1	1	1
70	5	5	5	5
71	5	3	3	1
72	2	4	5	4
73	2	2	1	3
74	1	2	4	4
75	4	1	5	5
76	3	5	1	3
77	4	2	4	5
78	2	2	3	1
79	2	1	4	4
80	1	4	5	5
81	3	1	5	3
82	5	4	2	4
83	1	3	2	2
84	4	4	1	2
85	5	5	4	1
86	1	3	3	5
87	4	5	4	2
88	3	1	2	2
89	4	4	2	1
90	5	5	1	4

NOTE: the key for item 39 of form 111, item 47 of form 222, item 32 of form 333 and item 46 of form 444 has not been provided because of an anomaly in the test item and therefore dropped from consideration