



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

CRITICALITY EVALUATION OF INSTRUMENT AND MEASURING DEVICE OF QUALITY CONTROL LAB

S.No.	Name of Instrument/ Measuring Devices	Instrument/ Measuring Devices ID	Utilization	Automation	Impact on product/Quality	Availability of control measures for any discrepancy	Detectability	Factor A x B x C x D x E	Non Critical /Moderate/ Critical
			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
1.	Brooks		1	4	4	3	3	144	Non Critical
2.	Brooks		1	4	4	3	3	144	Non Critical
3.	Brooks		1	4	4	3	3	144	Non Critical
4.	Depth Gauge		4	4	4	3	3	576	Critical
5.	Digital Tachometer		4	3	4	3	3	432	Critical
6.	Digital Thermometer		4	3	4	3	3	432	Critical
7.	Digital Thermometer		4	3	4	3	3	432	Critical
8.	Glass Thermometer		4	4	4	3	3	576	Critical
9.	Glass Thermometer		4	4	4	3	3	576	Critical
10.	Glass Thermometer		4	4	4	3	3	576	Critical
11.	Glass Thermometer		4	4	4	3	3	576	Critical
12.	Glass Thermometer		4	4	4	3	3	576	Critical
13.	Vernier Caliper		4	3	4	3	3	432	Critical
14.	Measuring Scale		4	4	2	3	3	288	Moderate
15.	Micro Meter		4	3	3	3	3	324	Moderate
16.	Stop Watch		4	2	4	3	3	288	Moderate
17.	Stop Watch		4	2	4	3	3	288	Moderate
18.	Stop Watch		4	2	4	3	3	288	Moderate
19.	Flow Meter		4	3	4	3	3	432	Critical
20.	Wobble Meter		3	4	2	3	3	216	Moderate
21.	Hardness Tester		4	3	4	3	3	432	Critical
22.	Hardness Tester		4	3	4	3	3	432	Critical
23.	Vernier Caliper		4	3	3	3	3	324	Moderate



PHARMA DEVILS

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
24.	Measuring Scale		4	4	2	3	3	288	Moderate
25.	Measuring Scale		4	4	2	3	3	288	Moderate
GC Instrument									
26.	Pressure Gauge		1	2	4	3	3	72	Non Critical
27.	Pressure Gauge		1	2	4	3	3	72	Non Critical
28.	Pressure Gauge		1	2	4	3	3	72	Non Critical
29.	Pressure Gauge		1	2	4	3	3	72	Non Critical
Dissolution Test Apparatus									
30.	RPM Meter		4	1	4	3	3	144	Non Critical
31.	Timer		4	1	4	3	3	144	Non Critical
32.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
33.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
Dissolution Test Apparatus									
34.	RPM Meter		4	1	4	3	3	144	Non Critical
35.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
36.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
37.	Timer		4	1	4	3	3	144	Non Critical
38.	Timer		4	1	4	3	3	144	Non Critical
Dissolution Apparatus									



PHARMA DEVILS

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
39.	Timer		4	1	4	3	3	144	Non Critical
40.	RPM Meter		4	1	4	3	3	144	Non Critical
41.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
42.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
43.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
44.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
45.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
46.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
47.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
48.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
49.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
Dissolution Apparatus									
50.	Timer		4	1	4	3	3	144	Non Critical
51.	RPM Meter		4	1	4	3	3	144	Non Critical
52.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical



PHARMA DEVILS

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
53.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
54.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
55.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
56.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
57.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
58.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
59.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
60.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
61.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
62.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
63.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
64.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical



PHARMA DEVILS

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
65.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
66.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
Friability Apparatus									
67.	Timer		4	1	4	3	3	144	Non Critical
68.	Counter Meter		4	1	4	3	3	144	Non Critical
Disintegration Apparatus									
69.	Timer		4	1	4	3	3	144	Non Critical
70.	Timer		4	1	4	3	3	144	Non Critical
71.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
72.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
73.	Temperature Indicator Controller with Sensor		4	1	4	3	3	144	Non Critical
Moisture Analyzer									
74.	Timer		3	1	4	3	3	108	Non Critical
75.	Temperature Indicator Controller with Sensor		3	1	4	3	3	108	Non Critical
Viscometer									
76.	RPM meter		1	1	4	3	3	36	Non Critical



PHARMA DEVILS

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
77.	Digital Temperature Controller		1	1	4	3	3	36	Non Critical
78.	Temperature Sensor		1	1	4	3	3	36	Non Critical
Tap Density Tester									
79.	Counter Meter		4	1	4	3	3	144	Non Critical
Sieve Shaker									
80.	Digital timer		4	1	4	3	3	144	Non Critical
Centrifuge									
81.	RPM meter		4	1	2	3	3	72	Non Critical
82.	Timer		4	1	2	3	3	72	Non Critical
Sonicator									
83.	Thermostat		4	1	3	3	3	108	Non Critical
84.	Digital Timer		4	1	3	3	3	108	Non Critical
Muffle Furnace									
85.	Digital Temperature Controller		4	1	4	3	3	144	Non Critical
86.	Temperature Sensor		4	1	4	3	3	144	Non Critical
Vacuum Oven									
87.	Digital Temperature Controller		4	1	4	3	3	144	Non Critical
88.	Temperature Sensor		4	1	4	3	3	144	Non Critical



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
89.	Vacuum Gauge		4	1	4	3	3	144	Non Critical
Water Bath									
90.	Thermostat		4	4	4	3	3	576	Critical
Water Bath Shaker									
91.	Digital Temperature Controller		1	3	2	3	3	54	Non Critical
92.	RPM Meter		1	3	2	3	3	54	Non Critical
93.	Temperature Sensor		1	3	2	3	3	54	Non Critical
Bursting Strength with Calibrator									
94.	Pressure gauge		4	3	4	3	3	432	Critical
Stability Chamber									
95.	Temperature Sensor		5	1	4	3	3	180	Moderate
96.	Temperature Sensor		5	1	4	3	3	180	Moderate
97.	Temperature Sensor		5	1	4	3	3	180	Moderate
98.	Temperature Sensor		5	1	4	3	3	180	Moderate
99.	Temperature Sensor		5	1	4	3	3	180	Moderate
100.	Temperature Sensor		5	1	4	3	3	180	Moderate
101.	Temperature Sensor		5	1	4	3	3	180	Moderate
102.	Temperature Sensor		5	1	4	3	3	180	Moderate
103.	Temperature Sensor		5	1	4	3	3	180	Moderate



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
104.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
105.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
106.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
107.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
108.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
109.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
110.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
111.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
112.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
113.	Thermostat		5	1	4	3	3	180	Moderate
114.	Thermostat		5	1	4	3	3	180	Moderate
115.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
116.	Digital Humidity Controller		5	1	4	3	3	180	Moderate
Stability Chamber									
117.	Temperature Sensor		5	1	4	3	3	180	Moderate
118.	Temperature Sensor		5	1	4	3	3	180	Moderate
119.	Temperature Sensor		5	1	4	3	3	180	Moderate
120.	Temperature Sensor		5	1	4	3	3	180	Moderate



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
121.	Temperature Sensor		5	1	4	3	3	180	Moderate
122.	Temperature Sensor		5	1	4	3	3	180	Moderate
123.	Temperature Sensor		5	1	4	3	3	180	Moderate
124.	Temperature Sensor		5	1	4	3	3	180	Moderate
125.	Temperature Sensor		5	1	4	3	3	180	Moderate
126.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
127.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
128.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
129.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
130.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
131.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
132.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
133.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
134.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
135.	Thermostat		5	1	4	3	3	180	Moderate
136.	Thermostat		5	1	4	3	3	180	Moderate
137.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
138.	Digital Humidity Controller		5	1	4	3	3	180	Moderate



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
Cooling Cabinet									
139.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
140.	Thermostat		5	1	4	3	3	180	Moderate
141.	Digital Temperature Scanner		5	1	4	3	3	180	Moderate
142.	Temperature Sensor		5	1	4	3	3	180	Moderate
143.	Temperature Sensor		5	1	4	3	3	180	Moderate
144.	Temperature Sensor		5	1	4	3	3	180	Moderate
145.	Temperature Sensor		5	1	4	3	3	180	Moderate
146.	Temperature Sensor		5	1	4	3	3	180	Moderate
Refrigerator									
147.	Digital Temp. Controller		5	1	4	3	3	180	Moderate
148.	Temperature Sensor		5	1	4	3	3	180	Moderate
Vacuum Pump									
149.	Pressure Gauge		4	4	2	3	3	288	Moderate
150.	Vacuum Gauge		4	4	2	3	3	288	Moderate
Laminar Air Flow									
151.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
152.	Magnehelic Gauge		5	4	3	2	2	240	Moderate



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
153.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Laminar Air Flow									
154.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
155.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
156.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Laminar Air Flow									
157.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Stability Chamber									
158.	Temperature Sensor		5	1	4	3	3	180	Moderate
159.	Temperature Sensor		5	1	4	3	3	180	Moderate
160.	Temperature Sensor		5	1	4	3	3	180	Moderate
161.	Temperature Sensor		5	1	4	3	3	180	Moderate
162.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
163.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
164.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
165.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
166.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
167.	Digital Humidity Controller		5	1	4	3	3	180	Moderate
168.	Thermostat		5	1	4	3	3	180	Moderate



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
169.	Thermostat		5	1	4	3	3	180	Moderate
Stability Chamber									
170.	Humidity & Temperature Transmitter		5	1	4	3	3	180	Moderate
171.	Temperature Sensor		5	1	4	3	3	180	Moderate
172.	Temperature Sensor		5	1	4	3	3	180	Moderate
173.	Temperature Sensor		5	1	4	3	3	180	Moderate
174.	Temperature Sensor		5	1	4	3	3	180	Moderate
175.	Temperature Sensor		5	1	4	3	3	180	Moderate
176.	Temperature Sensor		5	1	4	3	3	180	Moderate
177.	Temperature Sensor		5	1	4	3	3	180	Moderate
178.	Temperature Sensor		5	1	4	3	3	180	Moderate
179.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
180.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
181.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
182.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
183.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
184.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
185.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
186.	Relative Humidity Sensor		5	1	4	3	3	180	Moderate
Sonicator									
187.	Temperature Indicator with Sensor		4	2	3	3	3	216	Moderate
188.	Digital Timer		4	2	3	3	3	216	Moderate
Pass Box									
189.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Pass Box									
190.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Glassware Drying Oven									
191.	Temperature Indicator Controller with Sensor		4	2	2	3	3	144	Non Critical
LOD Oven									
192.	Digital Temperature Controller		4	2	4	3	3	288	Moderate
193.	Digital Temperature Sensor		4	2	4	3	3	288	Moderate
194.	Digital Timer		4	2	4	3	3	288	Moderate
195.	Thermostat		4	2	4	3	3	288	Moderate
BOD Incubator									
196.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
197.	Temperature Sensor		5	1	4	3	3	180	Moderate
198.	Thermostat		5	1	4	3	3	180	Moderate
BOD Incubator									
199.	Digital Temperature Controller		5	1	4	3	3	180	Moderate



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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
200.	Thermostat		5	1	4	3	3	180	Moderate
201.	Temperature Sensor		5	1	4	3	3	180	Moderate
Incubator									
202.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
203.	Temperature Sensor		5	1	4	3	3	180	Moderate
204.	Thermostat		5	1	4	3	3	180	Moderate
Incubator									
205.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
206.	Temperature Sensor		5	1	4	3	3	180	Moderate
207.	Thermostat		5	1	4	3	3	180	Moderate
Autoclave									
208.	Digital Temperature Controller		4	1	4	3	3	144	Non Critical
209.	Pressure Gauge		4	3	4	3	3	432	Critical
210.	Safety valve		4	3	4	3	3	432	Critical
211.	Safety valve		4	3	4	3	3	432	Critical
212.	Temperature Sensor		4	1	4	3	3	144	Non Critical
213.	Timer		4	1	4	3	3	144	Non Critical
Autoclave									
214.	Digital Temperature Controller		4	1	4	3	3	144	Non Critical
215.	Pressure Gauge		4	3	4	3	3	432	Critical
216.	Safety valve		4	3	4	3	3	432	Critical
217.	Temperature Sensor		4	1	4	3	3	144	Non Critical



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

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			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
218.	Temperature Sensor		4	1	4	3	3	144	Non Critical
219.	Temperature Sensor		4	1	4	3	3	144	Non Critical
220.	Temperature Sensor		4	1	4	3	3	144	Non Critical
221.	Timer		4	1	4	3	3	144	Non Critical
Water Bath									
222.	Digital Temperature Controller		4	3	4	3	3	432	Critical
223.	Temperature Sensor		4	3	4	3	3	432	Critical
Oven									
224.	Digital Temperature Controller		4	1	4	3	3	144	Non Critical
225.	Timer		4	1	4	3	3	144	Non Critical
226.	Temperature Sensor		4	1	4	3	3	144	Non Critical
227.	Thermostat		4	1	4	3	3	144	Non Critical
Vacuum Pump									
228.	Vacuum Gauge		4	4	3	3	3	432	Critical
Horizontal Laminar Air Flow									
229.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Horizontal Laminar Air Flow									
230.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Refrigerator									
231.	Digital Thermometer		5	1	4	3	3	180	Moderate
232.	Digital Thermometer		5	1	4	3	3	180	Moderate
Refrigerator									
233.	Digital Thermometer		5	1	4	3	3	180	Moderate



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

CRITICALITY EVALUATION OF INSTRUMENT AND MEASURING DEVICE OF QUALITY CONTROL LAB

S.No.	Name of Instrument/ Measuring Devices	Instrument/ Measuring Devices ID	Utilization	Automation	Impact on product/Quality	Availability of control measures for any discrepancy	Detectability	Factor A x B x C x D x E	Non Critical /Moderate/ Critical
			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
234.	Digital Thermometer		5	1	4	3	3	180	Moderate
Cycle Mixer									
235.	RPM Indicator		4	1	4	3	3	144	Non Critical
BOD Incubator									
236.	Digital Temperature Controller		5	1	4	3	3	180	Moderate
237.	Temperature Sensor		5	1	4	3	3	180	Moderate
238.	Thermostat		5	1	4	3	3	180	Moderate
Magnehelic Gauge									
239.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
240.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
241.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
242.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
243.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
244.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
245.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
246.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
247.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
248.	Magnehelic Gauge		5	4	3	2	2	240	Moderate
Digital Hygrometer									
249.	Digital Hygrometer		5	2	4	3	3	360	Critical
250.	Digital Hygrometer		5	2	4	3	3	360	Critical
251.	Digital Hygrometer		5	2	4	3	3	360	Critical
252.	Digital Hygrometer		5	2	4	3	3	360	Critical



PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

CRITICALITY EVALUATION OF INSTRUMENT AND MEASURING DEVICE OF QUALITY CONTROL LAB

S.No.	Name of Instrument/ Measuring Devices	Instrument/ Measuring Devices ID	Utilization	Automation	Impact on product/Quality	Availability of control measures for any discrepancy	Detectability	Factor A x B x C x D x E	Non Critical /Moderate/ Critical
			(A)	(B)	(C)	(D)	(E)	A x B x C x D x E	
253.	Digital Hygrometer		5	2	4	3	3	360	Critical
254.	Digital Hygrometer		5	2	4	3	3	360	Critical
255.	Digital Hygrometer		5	2	4	3	3	360	Critical
256.	Digital Hygrometer		5	2	4	3	3	360	Critical
257.	Digital Hygrometer		5	2	4	3	3	360	Critical
258.	Digital Hygrometer		5	2	4	3	3	360	Critical
259.	Digital Hygrometer		5	2	4	3	3	360	Critical
260.	Digital Hygrometer		5	2	4	3	3	360	Critical
261.	Digital Hygrometer		5	2	4	3	3	360	Critical
262.	Digital Hygrometer		5	2	4	3	3	360	Critical
Digital Clock									
263.	Digital Clock		5	2	1	3	3	90	Non Critical
264.	Digital Clock		5	2	1	3	3	90	Non Critical
265.	Digital Clock		5	2	1	3	3	90	Non Critical
266.	Digital Clock		5	2	1	3	3	90	Non Critical

Prepared By:

(Signature/Date): _____

Checked By:

(Signature/Date): _____