1. Raspberry pi 2 Model B Technical Specification:
2. SoC: Broadcom BCM2837B0.
3. CPU: Quad Cortex A7 @900MHz.
4. Instruction Set: ARMv7-A.
5. GPU: 250MHz VideoCore 4.
6. RAM: 1GB SDRAM.
7. Storage: micro-SD.
8. Ethernet: 10/100.
9. Wireless: none.
10. Video Output: HDMI/Composite.
11. GPIO: 40.
12. Operating Voltage: 5V.
13. Operating Current: 2.5 A.
14. Price: $35.
15. Arduino Technical Specifications:
16. Microcontroller: ATmega328P.
17. Operating Voltage: 5V.
18. Input Voltage (recommended): 7-12 V.
19. Input Voltage (Limit): 6-20 v.
20. Digital I/O Pins: 14.
21. PWM Digital I/O Pins: 6
22. Analog Input Pins: 6.
23. DC Current per I/O pin: 20mA.
24. DC Current for 3.3V Pin: 50mA.
25. Flash Memory: 32KB.
26. SRAM: 2KB.
27. EEPROM: 1KB.
28. Clock Speed: 16 MHz
29. Moisture and Temperature Sensor Specifications:
30. Model No: EC-1258.
31. Working Voltage: 5V.
32. Working current: <20mA.
33. Interface Type: Analog
34. Working Temperature: 100C ~ 300C.
35. pH Sensor Specifications:
36. Model No: FPH-BTA.
37. Type: Double-Junction, Sealed, gel-filled, polycarbonate body, Ag/AgCl.
38. Response Time: 90% of final reading in 1sec in a buffer.
39. Temperature Range: 5 to 800C.
40. pH Range: 0-14.
41. Accuracy: ± 0.2 pH units.
42. Isopotential pH: pH 7.
43. Shaft Diameter: 12 mm OD.
44. Relay Specifications:
45. Type: General-Purpose 1 pole Heavy Load SPST-NO Power Relay.
46. Coil Voltage: 12V.
47. Coil Resistance: 185V.
48. Contact Current: 25A.
49. Switching Voltage: 250 VAC.
50. Life:
51. Resistive Load: 100 x 103 Operations.
52. Motor Load: 200 x 103 operations,

(Given: 250VAC inrush 80A, cos=0.7, cut-off 20 A, cos=0.9).