Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 24 Multimeter

Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 24 Multimeter

Readings / items		Highest Range		Next Highest Range		Appropriate Range	
		Range	Reading	Range	Reading	Range	Reading
DC Voltage	1						
	2						
	3						
AC Voltage	1						
	2						
	3						
DC Current	1						
	2						
	3						
Resistance	1						
	2						
	3						

Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 26 Resistor

Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
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EXP. 26 Resistor

Items	R_2 (Ω)	Known Resistor R_1 (Ω)	Length of MB a	Length of BN b	Measured Value R_2 (Ω)	Average R_2 (Ω)
Carbon Resistor 1	Color Code：_____ Resistance：_____					
Carbon Resistor 2	Color Code：_____ Resistance：_____					
Carbon Resistor 3	Color Code：_____ Resistance：_____					
Resistor 1 to-be-measured	Radius：_____ Length：_____					
Resistor 2 to-be-measured	Radius：_____ Length：_____					
Resistor 3 to-be-measured	Radius：_____ Length：_____					

Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 27 Capacitor

Physics Experiment Report Sheet

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
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EXP. 27 Capacitor

	Known Capacitor C_1		*Length of AB* L_1	*Length of BD* L_2	Measured Value C_2	Average C_2 (Unit： μF)
1	C_1=1μF C_2=105K (0.97μF)	400 Hz				
		1000 Hz				
		1400 Hz				
2	C_1=1μF C_2=205K (2.32μF)	400 Hz				
		1000 Hz				
		1400 Hz				
3	C_1=1μF C_2=475K (4.77μF)	400 Hz				
		1000 Hz				
		1400 Hz				

Discussions:

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 28 Kirchhoff's Law

Date_____Room Temp. _____BP (Barometric Pressure)_____Department_____
Group Number_____Student Number_____Name_____Grade_____

EXP. 28 Kirchhoff's Law

(1) Parallel connection of 2 power supplies

ε_1 = _____V · ε_2 = _____V ·

	R_1 = _____Ω		R_2 = _____Ω		R_3 = _____Ω	
	I_1	V_1	I_2	V_2	I_3	V_3
Measured Values						
Theoretical values						
Percentage Errors (%)						

(2) Series connection of 2 power supplies:

ε_1 = _____V · ε_2 = _____V ·

	R_1 = _____Ω		R_2 = _____Ω		R_3 = _____Ω	
	I_1	V_1	I_2	V_2	I_3	V_3
Measured Values						
Theoretical values						
Percentage Errors (%)						

EXP. 38 Polarization of Light

(1) Brewster' angle of acrylic θ_p : _____ n = _____

Brewster' angle of glass θ_p : _____ n = _____

(2) Law of Malus，Maximum light intensity I_m = _____

θ	photoresistor R_θ	Light Intensity I_θ	Experimental Value I_θ / I_m	Theoretical Value $(\cos\theta)^2$

Lab 41. Diffraction Grating

(1) Tungsten Filament Lamp：

The spacing of adjacent slits_____cm

Light	Distance from the ruler to the grating D(cm)	Order m	Position of light W(cm)	Wavelength λ (nm)
Red				
Red				
Red				
Red				
Blue				
Blue				
Blue				
Blue				

Wavelength of red light λ ：_____nm

Wavelength of blue light λ ：_____nm

Wavelength of visible light ranges：_____nm

(2) Laser source：

Distance from the screen to the grating D(cm)	Order m	Distance from the central spot to the diffraction spot W (cm)	Wavelength (nm)

Wavelength Mean：_____nm

Theoretical value：$630\times10^{-7}\sim680\times10^{-7}$ cm

Experimental value：_____