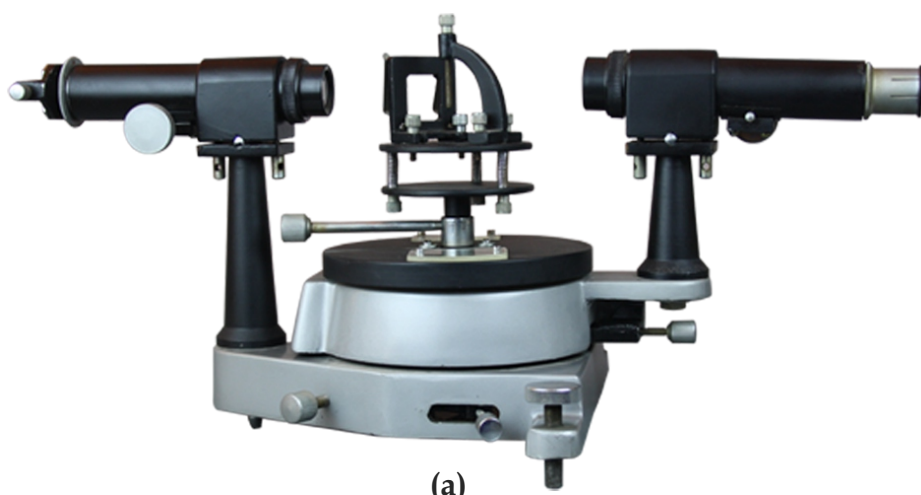


Experiment(s):

1. Determination of grating constant and resolving power of grating
2. Measurement of wavelengths of mercury spectrum

(For more details, procedure & manual visit: www.kamaljeeth.net)



(a)



(b)



(c)

Experiment Setup Consists:

- a) Spectrometer
- b) Diffraction Grating
- c) Mercury Vapour Lamp Set

Specifications:

a) Spectrometer:

Scale: 6" diameter (Brass)
Base: Cast Iron with levelling screw
All moving parts made of Brass for accuracy
Collimator with adjustable slit
Horizontal axis alignment for collimator: Yes
Horizontal axis alignment for telescope: Yes
Centre Table: Height adjustable with provision for Prism and grating holder
Telescope with user changeable cross wire and eyepiece

b) Diffraction Grating:

Grating Constant: 15000
Lines/Inch
Window size: 40mm x 30mm

c) Mercury Vapour Lamp:

Bulb: Philips/Osram
Power: 160W
Transformer free operation
Enclosure: Wooden with slits
Input: Mains operated 220V, 50Hz or 110V, 60Hz

Reference : Lab Experiments Journal vol-15, No.4, Page-278



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