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General Physics 2 (PHYS 111) Quiz (2)

Name	
Student's ID	

1- The energy of a photon that corresponded to wavelength of 400 nm is:

a) 4.97×10^{-19}J
b) 4.97×10^{-10}J
c) 1.66×10^{-27}J
d) 1.66×10^{-18}J

2- Light pass from air which has a refracted index (n=1) through glass which has a refracted index (n=1.3) by an incident angle of 40^0, what is the expected refracted angle:

b) 52°
b) 40°
c) 30°
d) 20°

3- The critical angle for light passing from a block of quartz into air is 43.24°. Calculate the index of refraction of rock salt. Where the refraction index for air is 1.

a) 1
b) 0.65
c) 0.025
d) 1.46

4- A 8 V battery connected to a light bulb by a wire which has a resistance of 5 Ω, the approximated current that could flow through the wire is:

a) 0.1 A
b) 1.6 A
c) 3.9 A
d) 10 A

5- The new **consumption tariff from Saudi** electricity company is 18 halalah/kWh. The monthly bill cost due to using a laptop for 3 hours per day that draws acurrent of 4.6 A from 220 V line is:

a) 10.0 R.s
b) 16 R.s
c) 30.0 R.s
d) 50 R.s

Constants Value:

Planck's constant (h) = 6.626×10^{-34} J

Light speed (c) = 2.998×10^{8} m/s