

ALLMA IQBAL OPEN UNIVERSITY, ISLAMABAD

Level : F.Sc

Paper : Physics-II (384)

Time : 3 hours

(NEW COURSE)

Semester : Autumn 2006

Maximum Marks : 100

Pass Marks : 40

Note: Attempt any five questions. Question No.1 is compulsory.

Q.No.1	<p>(A) Fill in the blanks.</p> <ol style="list-style-type: none"> The incident ray, the normal at the point of incidence and the refracted all lie in the _____ plane. The power of lens is measured in _____. 1kilo-calorie= _____ calories The device used for storing charge is known as _____. The _____ across the ends of the conductor is directly proportional to the current flowing through it. <p>(B) Give short answers to the following questions.</p> <ol style="list-style-type: none"> Define Huygens principle? Define magnification and give its unit? The temperature of a gas oven is 150C. Find its temperature in Fahrenheit? Give the characteristics of electric lines of force? Does a monopole exist? If not give reason? 	(05)
Q.No.2	<p>(A) Explain Young's Double slit experiment? Also give quantitative analysis of Young's experiment.</p> <p>(B) Two narrow slits, separated by a distance of 0.5mm, are illuminated by a monochromatic light. If the distance between the slits and the screen is 50 cm and the wavelength of light is 5890 Å, then find the fringe spacing.</p>	(15)
Q.No.3	<p>(A) Derive the lens formula for concave lens.</p> <p>(B) An object of height 2cm is placed in front of a concave lens at a distance of 20cm from it. If the focal length of the lens is 10 cm, then find the nature, position and size of the image.</p>	(15)
Q.No.4	<p>(A) Prove that the absolute temperature of an ideal gas is directly proportional to the average random translational kinetic energy of all molecules.</p> <p>(B) The volume of a gas cylinder is 20 liters. It contains 200 grams of oxygen gas at 0C. Find the pressure of oxygen.</p>	(15)
Q.No.5	<p>(A) Give statements of Second law of thermodynamics. Give equivalence of the two statements.</p> <p>(B) A system does 500 Joules of work and at the same time its internal energy increases by 240 Joules. How much heat has been supplied?</p>	(15)
Q.No.6	<p>(A) State and explain Gauss's Law. Give one application of Gauss's law.</p> <p>(B) The distance between two oppositely charged plates is 4cm. The electric intensity between the plates is 1000N/C. if the area of each plate is 100cm then find the charge on plate.</p>	(15)
Q.No.7	<p>(A) Find the expression for the absolute potential electric potential.</p> <p>(B) If three capacitors of capacitances 0.5 F, 0.3 F and 0.2 F are connected in series then find their equivalent resistance.</p>	(15)
Q.No.8	<p>(A) Find the force on a current carrying conductor in a uniform magnetic field.</p> <p>(B) A current carrying conductor of length 10cm is placed perpendicular in a magnetic field of 0.05 tesla. If the magnetic force on the conductor is 0.02N then find the current in the conductor.</p>	(15)

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