

Iqra National University, Peshawar
Department of Electrical Engineering

Mid – Term Assignment Summer Semester-2020
Date:22/08/2020

Course Code: GSP101 Course Title: Applied Physics
Prerequisite: Nil Instructor: Dr. Shahid Latif
Module: 1 Program: BEE Total Marks: 30

Q1	(a)	Keeping in view SI Units, solve the following: (5 Marks) 1. A body's temperature is 143.4° C. What is this temperature in kelvins? 2. An item has temperature of 2596 degree K. What is its temperature in Celsius. 3. An item has a mass of 4.76 g and volume 0.54 cm^3 , calculate its density?
	(b)	Convert the following: (5 Marks) 1. 257,600 meters to kilometers 2. 58,300 milliliter to liters 3. 87,421 centimeters to meters 4. 869 kilogram to grams 5. 10^4 milligram to Gram
Q2	(a)	Write what is the difference between the below terms: Distance & Displacement, Speed & Average speed, Positive acceleration & Negative acceleration give example of each case. (5 Marks)
	(b)	A car is moving with a velocity of 8 m/s. The driver applies brakes and the car comes to stop after covering a distance of 19 m. Calculate its acceleration? (5 Marks)
Q3	(a)	Describe in detail and prove mathematically first law and second law of motion with giving an example for each law from our daily life. (5 Marks)
	(b)	Explain third law of motion by deriving its equation in terms of mass and acceleration. Give three examples of this law from daily actions of life. (5 Marks)