Yanbu Industrial College

Department of Mechanical Engineering Technology

Assignment Cover Sheet

Student Name	ID	Section

Course code	Assignment Number	Assignment Due Date
MCET 105	1	7-2-2021
Course Name		
Applied Statics		

Question #	CLOs	Marks Assigned	Marks Attained
1	4.1	6	
2	4.1	4	
Total out of 10			

Instructors: Dr. Akram Faqeeh (CC) and Dr. Zuhair Abdulghani

Guidelines and Rules:

1. You are required to follow the guidelines and rules strictly, otherwise, your work might not be accepted.
2. You are required to include the assignment cover sheet and included questions pages and make sure to write your name, ID, and section.
3. Make sure that your work is neat and readable, otherwise, your marks may be negatively impacted.
4. Scan your solution professionally and as one PDF file and then upload it.
5. Late submission will not be accepted.

Question 1:

A rocket has a mass of $3.65(10^6)$ kg on earth. Specify its weight in SI units. If the rocket is on the moon, where the acceleration due to gravity is $g_m = 1.62\ m/s^2$.
Determine to three significant figures the following:

(a) its weight in SI units. (2 marks)
(b) its mass in SI units. (2 marks)

You are required to explain your solution using your own words. (2 marks)

Question 2:

For this question express the result to three significant figures with using an appropriate prefix. What is the weight in newtons of an object that has a mass of:

(a) 10 kg (1 mark)
(b) 0.5 g (1 mark)
(c) 4.5 Mg (1mark)

You are required to explain your solution using your own words. (1 marks)