Faculty of Engineering and Technology
Assignment-1

Department/Faculty	:	Mathematics and Statistics/FMPS
Programme	:	B.Tech (CSC)
Semester/Batch	:	5/2018
Course Code	:	19CSC301A
Course Title	:	Probability and Statistics

Question No. 1 (5+5=10 marks)

The data given below are the compressive strengths in pounds per square inch (psi) of 15 specimens of a new aluminum-lithium alloy undergoing evaluation as a possible material for aircraft structural elements. The data were recorded in the order of testing:

Compressive strengths in pounds(psi): 105, 221, 183, 153, 174, 181, 158, 208, 194, 133, 165, 171, 158, 190, and 135.

(a) Determine the average and standard deviation of compressive strengths.

(b) Determine the three quartiles and develop a Box - and – Whisker Plot. Also, identify the extreme observations.

Note: Date of Submission- on or before 10th November 2020

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