



National University

of Computer & Emerging Sciences Peshawar Campus



Program: BS (CS)

Semester: Spring-2021

Time Allowed: **02 hours**

Course: Probability & Statistics (MT205 / MT206)

Examination: **MID TERM**

Total Marks: 90, Weightage: **30**

Date: 24 / 05 / 2021

Instructor: Osama Sohrab

NOTE : Attempt all questions. There are total 6 questions in your exam. For each question there is 20 minutes (scanning & uploading time included) and each question carries 15 marks.

Problem # 1 / 6

Marks = 15, Time = 20 min.

(a) Suppose the strength of your class is 40 in which 35 are boys and 5 are girls. If in this mid exam no two students obtained the same marks then what is the probability that boys will receive top three positions?

(b) Suppose 90 % of your class has the knowledge of Python, only 20 % know MATLAB and 5 % know both Python and MATLAB. If a student from your class know Python then what is the probability that he/she know MATLAB?
