Iqra University logo

**Airport Campus**

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| **Student’s Name & ID:** |  |  |
| **Subject:** | Business Statistics | **Submission Day:** Saturday |
| **Instructor:** | Muhammad Umer Ahrar | **Submission Date:** 13th of June, 2020 |
| **Program:** | BBA | **Submission Time:** 06:00 PM **(Before)** |
| **Section:** | Wednesday - 1022 | **Max. marks:** 30 |

**Department of Business Administration**

Final Exam (Take Home) – Spring 2020

**Instructions:**

1. Read and attempt all the questions carefully.
2. Organize your work clearly, neatly, and legibly with page numbers in footer.
3. You are not allowed to change the sequence of questions or any part.
4. This exam will test your ability to examine, explain, modify or develop concepts discussed in class.
5. Exam answers will also be checked through Turnitin for originality.
6. Do not share your answer with any classmate or member. Otherwise, you will be penalized by deduction in your marks.
7. We have extended the duration of the exam to give you time to download the paper, write your answers and upload them.
8. Each student has to submit complete question paper with answers on a **Word Document** and submit the soft copy through VLE.
9. Your answer should be typed, double-spaced on standard-sized paper A4. (8.27″ x 11.69″) with 1″ Normal margins on all sides.
10. You should use a clear font that is highly readable; **12 pt. Times New Roman** font.

Scenario 1: One of the renowned university teacher claims that a student will obtain 69 marks on average in a particular course during this pandemic environment.

Scenario 2: The same teacher also claims that there is no difference between the average study hours of girls and boys during this pandemic.

Scenario 3: Keeping that in mind the before and after pandemic situations, there is no difference in the average study hours. (Same interest from the students in the subjects taught was observed).

Scenario 4: He also claims that girls were more regular in attending the class than boys.

Scenario 5: Some students have greater interest to study than others. Age is one important factor for the interest in studies. Personal factors do not allow some students to study more than other. Married students have more responsibilities than unmarried students. Similarly, some students are sharper than others. This brings to a question of how many hours student study for their exams.

Requirement (for all scenarios):

1. Write the objective of each scenario. (3 Marks)
2. Also write the hypothesis of all necessary outputs. (3 Marks)
3. List the variable(s) which is suitable for the test. Why? (5 Marks)
4. Write down the name of the statistical technique you will apply. (4 Marks)
5. Supporting calculations: (10 Marks)

* If you are doing it manually, then calculate all the necessary things and show the working separately.
* If you are doing it on SPSS, then copy the SPSS output in word document.

1. Analyze the results. (5 Marks)