



Bachelor of Information Technology (External) Degree
University of Moratuwa
ITE 1922 - ICT Applications
Practical Exam

Time: 30 minutes

January 2021

SECTION 02 (30 marks)

The spreadsheet *Excel_MainQuestion.xlsx* shows the population of some countries in two years.

1. Download the file *Excel_Main Question.xlsx* and save it as *Your- Index – Number.xlsx*. You must save all your work in the file *Your – Index – Number.xlsx*. (01 mark)
2. Calculate the total population of the given list of countries for the year 2013 and indicate it in the J2 cell. (02 marks)
3. Calculate the standard deviation of the population for the year 2013 and indicate it in the J3 cell. (02 marks)
4. Count the number of countries where its year 2010 population is less than the year 2013 population. Indicate the value in the J4 cell. (03 marks)
5. Indicate the countries with population greater than 7000000 (as per the year 2013) using a suitable colour. (02 marks)
6. Create a new column named “Center” and indicate the average population for each country (considering the given three years). (02 marks)
7. Create a new column named “Growth” and indicate the growth of the population for each country as a percentage for the year 2015 compared to the year 2010. (02 marks)

8. Create a new column named “Status ”and indicate as *Above* if the population is greater than the 5000000 and *Below* if the population is less than or equal to the 5000000 population (consider the population of the year 2015). (03 marks)
9. Sort the countries based on the population of the year 2010 (lowest population is in the top of the list). (02 marks)
10. A scatter plot can show the variation in population in the given list of countries.
- 9.1. Draw a scatter plot (04 marks)
 - 9.2. Add a title to the chart (01 mark)
 - 9.3. Add proper title names to x axis and y axis (02 marks)
11. Draw a border for the data table. (02 marks)
12. Add filters to column headers (02 marks)

Save and upload your document.