

## **STAT 6108 (2019-20)**

### **Assignment 1**

**Assigned on Saturday, 18 January, 2020**

**To be handed in on or before Wednesday, 12 February 2020**

1. Look closely at the **FIRST THREE** of the ten Fundamental Principles of Official Statistics promulgated by the United Nations (read the full version, not just the slide in the PowerPoint). Discuss how EACH of the principles, in your view, can help in *establishing the credibility and enhancing the usefulness* of official statistics.
2. Download the Annual Digest of Statistics (2019) from the Census and Statistics Department(C&SD) Web-site. Click Hong Kong Statistics, then “All tables, publications,...”. Go for “General Statistical Digests”; and you will find the publication.

Quickly go over the contents of the publication to see what are contained there and **locate some datasets that you find interesting or useful to you.** (You do not have to mention which datasets you have located at this stage.)

**Create TWO topics of interest.** Write on each of them using the various data sets you have located.

Given the huge size of the publication, you are advised to restrict yourself to Chapters 1 and 2 in picking out the data sets and creating the topics to write on. **But this restriction is certainly NOT mandatory.**

For **each** topic, describe the data set(s) that you have used and where you have found them in the publication (quote table no. and title, say). Mention **significant facts revealed** by the data write about **their implications for** public policy / business / research.

Write **two** A4 size pages or so **for each topic**.

3. In the following table are shown the mid-year population of a certain territory T and the sex-age-specific death rates for 2011 and 2018.

- a) From the data, work out **the no. of deaths and the death rates** (i) for the age brackets 50-59 in 2011 and (ii) males in the age bracket 60-74 in 2018
- b) Taking the mid-2011 population as the Standard Population, work out the Standardized Death Rate for 2018.

Age Group	2011 male (No.) '000	2011 female (No.) '000	2011 male (ASDR)	2011 female (ASDR)	2018 male (No.) '000	2018 female (No.) '000	2018 male (ASDR)	2018 female (ASDR)
0	28	26	2.9	2.4	22	21	2.8	2.7
1-4	114	105	0.3	0.2	88	82	0.3	0.2
5-9	205	191	0.1	0.1	162	152	0.1	0.1
10-14	221	208	0.1	0.1	211	201	0.1	0.1
15-19	229	217	0.3	0.2	222	214	0.2	0.1
20-24	225	243	0.5	0.2	226	247	0.4	0.1
25-29	241	284	0.9	0.3	224	279	0.7	0.2
30-34	256	326	0.8	0.3	239	310	0.7	0.4
35-39	312	371	1.0	0.6	248	331	1.0	0.5
40-44	335	343	1.5	0.9	304	365	1.4	0.8
45-49	271	269	2.7	1.3	324	336	2.0	1.2
50-54	228	210	3.9	1.8	264	268	3.7	2.0
55-59	136	117	7.0	2.8	215	208	5.6	2.7
60-64	134	117	10.3	4.8	128	116	9.9	4.4
65-69	128	122	18.0	9.3	125	117	15.4	6.9
70-74	102	108	30.0	15.5	112	116	27.8	14.1
75-79	64	81	48.4	26.8	82	96	45.1	24.8
80-84	34	52	76.9	46.1	45	68	77.0	44.3
85 +	20	43	128.8	101.9	29	62	130.5	99.2
Total	3282	3432	---	---	3270	3587	---	---

The above table shows the population of the territory T at mid-year of 2011 and 2018 and the ASDR (Age-specific Death Rates ) of the two genders [ i.e., the sex-age-specific death rates]

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