Lab Assessment 5 – (Model Exam)

Max marks: 30; Weightage: 15

Exam date and time: 03.12.2021 (3.50 pm to 5.30 pm)

For the answers:

• R syntax is required

• All Syntax must include your name in comment

• The Visual dashboard must include your name

• The Graphs generated must include your name

• The Tag cloud must include your name

• File name must be registernumber_name

• Assignment should be submitted in VTOP

The snapshot of data related to the COVID in India and Brazil from the complete period (including 1st and 2nd wave) is given below. Complete dataset is available in Teams. Considering yourself as a visualisation designer, design a visualisation to effectively convey required information to a general audience.

iso_code	continent	location	date	total_cases	new_cases	total_deaths	new_deaths	population
BRA	South America	Brazil	26/02/20	1	1			212559409
BRA	South America	Brazil	27/02/20	1	0			212559409
BRA	South America	Brazil	28/02/20	1	0			212559409
BRA	South America	Brazil	29/02/20	2	1			212559409
BRA	South America	Brazil	01/03/20	2	0			212559409
BRA	South America	Brazil	02/03/20	2	0			212559409
BRA	South America	Brazil	03/03/20	2	0			212559409
BRA	South America	Brazil	04/03/20	4	2			212559409
BRA	South America	Brazil	05/03/20	4	0			212559409
BRA	South America	Brazil	06/03/20	13	9			212559409
BRA	South America	Brazil	07/03/20	13	0			212559409
BRA	South America	Brazil	08/03/20	20	7			212559409
BRA	South America	Brazil	09/03/20	25	5			212559409
BRA	South America	Brazil	10/03/20	31	6			212559409
BRA	South America	Brazil	11/03/20	38	7			212559409
BRA	South America	Brazil	12/03/20	52	14			212559409
BRA	South America	Brazil	13/03/20	151	99			212559409
BRA	South America	Brazil	14/03/20	151	0			212559409
BRA	South America	Brazil	15/03/20	162	11			212559409
BRA	South America	Brazil	16/03/20	200	38			212559409
BRA	South America	Brazil	17/03/20	321	121	1	1	212559409
BRA	South America	Brazil	18/03/20	372	51	3	2	212559409
BRA	South America	Brazil	19/03/20	621	249	6	3	212559409
BRA	South America	Brazil	20/03/20	793	172	11	5	212559409
BRA	South America	Brazil	21/03/20	1021	228	15	4	212559409
BRA	South America	Brazil	22/03/20	1546	525	25	10	212559409
BRA	South America	Brazil	23/03/20	1924	378	34	9	212559409
BRA	South America	Brazil	24/03/20	2247	323	46	12	212559409
BRA	South America	Brazil	25/03/20	2554	307	59	13	212559409
BRA	South America	Brazil	26/03/20	2985	431	77	18	212559409
BRA	South America	Brazil	27/03/20	3417	432	92	15	212559409
BRA	South America	Brazil	28/03/20	3904	487	111	19	212559409
BRA	South America	Brazil	29/03/20	4256	352	136	25	212559409
BRA	South America	Brazil	30/03/20	4579	323	159	23	212559409

Implement a visual dashboard using Rshiny/flex dashboard, (10 marks)

The dashboard should contain the following

1. Design an effective representation for daily confirmed cases and daily death for India and Brazil – Use appropriate graph with suitable marks and channels **(5 marks)**

2. Give the minimum 5 inference obtained from the above graph **(5 marks)**

3. Generate a tag cloud for the above inference (2), the tag cloud should contain only 10 words with minimum frequency of two and words should have both horizontal and vertical representation **(5 marks)**

4. Derive daily death per million population and daily confirmed cases per million population for India and Brazil and represent as table **(5 marks)**

***** All the best *****