

Special Degree Examination in Arts (Geography) Part III

End of the Semester Examination – First Semester 2019

GYG 4177 – Transport Geography

Time: Two (02) Hours

Answer three (03) questions selecting one (01) from Part I and two (02) from Part II

World maps and Sri Lanka Maps will be provided. Use of calculator is allowed.

Part I

1. A company has factories at A, B and C which supply warehouses at D, E and F. Weekly factory capacities are 200, 160 and 90 units respectively. Weekly warehouse requirements (demands) are 180, 120 and 150 units respectively. Unit transport costs are shown in Table 1.

Table 1

Factory	Warehouse			Supply
	D	E	F	
A	16	20	12	200
B	14	8	18	160
C	26	24	16	90
Demand	180	120	150	450

Determine the optimum distribution for this company to minimize transport costs.

(20 marks)

2. A company has five taxis, 1,2,3,4 and 5 and there are five customers, P, Q, R, S and T requiring taxis. The distance between the taxis and the customers are given in the **Table 2** below, in Kilometres. The taxi company wishes to assign the taxis to customers so that the distance traveled is minimized.

Table 2

Taxis	Customers				
	P	Q	R	S	T
1	12	14	17	14	10
2	9	18	16	16	13
3	15	16	9	11	11
4	14	12	13	15	12
5	10	15	17	13	17

(20 marks)

Part II

3. (i) Name the four main stages of the evolution of transportation geography.
(02 marks)
- (ii) Select one of the above mentioned stages and discuss its impact on global transportation.
(18 marks)
- (Total 20 marks)
4. (i) Briefly describe the impact of physical constraints on transportation.
(05 marks)
- (ii) How have those physical constraints been overcome in the present world? Discuss with appropriate examples.
(15 marks)
- (Total 20 marks)

5. (i) Classify modes of transport.

(04 marks)

(ii) Select one of the modes of transport and describe its development in Sri Lanka after Independence.

(16 marks)

(Total 20 marks)

6. (i) Explain the urban spatial structure using appropriate sketches.

(06 marks)

(ii) Discuss three issues in urban transportation with examples in developing countries.

(14 marks)

(Total 20 marks)