

Department of Examinations – Sri Lanka

G.C.E. (A/L) Examination – 2021(2022)

22 – Geography

Marking Scheme



Amendments to be included

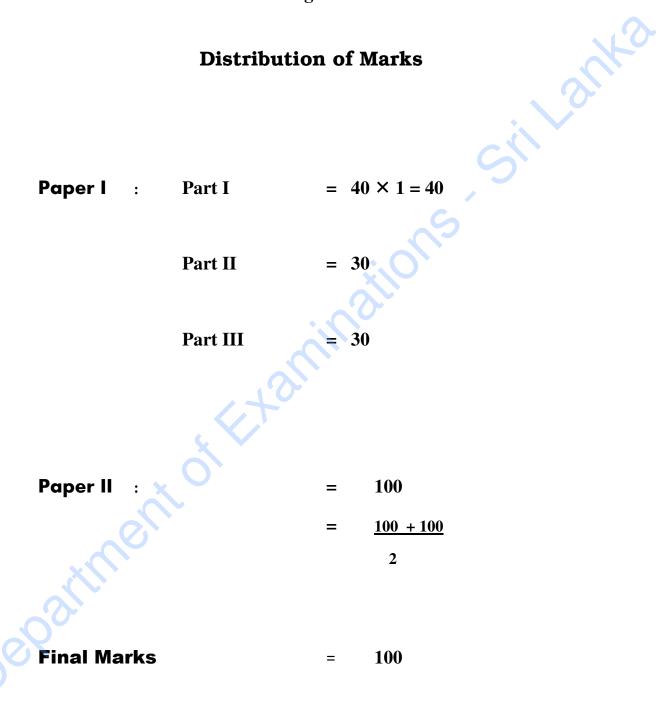
This document has been prepared for the use of Marking Examiners. Some changes would be made according to the views presented at the Chief Examiners' meeting.

G. C. E (Advanced Level) Examination – 2021 (2022)

22 - Geography

Marking Scheme

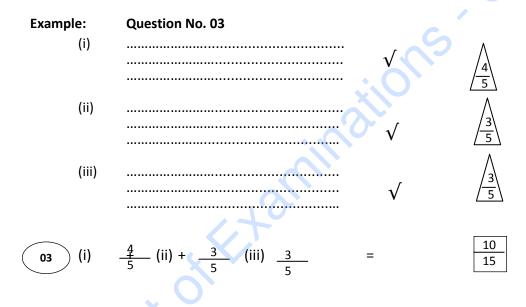
Distribution of Marks



Common Techniques of Marking Answer Scripts.

It is compulsory to adhere to the following standard method in marking answer scripts and entering marks into the mark sheets.

- 1. Use a red color ball point pen for marking. (Only Chief/Additional Chief Examiner may use a mauve color pen.)
- 2. Note down Examiner's Code Number and initials on the front page of each answer script.
- 3. Write off any numerals written wrong with a clear single line and authenticate the alterations with Examiner's initials.
- 4. Write down marks of each subsection in a \triangle and write the final marks of each question as a rational number in a with the question number. Use the column assigned for Examiners to write down marks.



MCQ answer scripts: (Template)

- 1. Marking templets for G.C.E.(A/L) and GIT examination will be provided by the Department of Examinations itself. Marking examiners bear the responsibility of using correctly prepared and certified templates.
- 2. Then, check the answer scripts carefully. If there are more than one or no answers Marked to a certain question write off the options with a line. Sometimes candidates may have erased an option marked previously and selected another option. In such occasions, if the erasure is not clear write off those options too.
- 3. Place the template on the answer script correctly. Mark the right answers with a 'V' and the wrong answers with a 'X' against the options column. Write down the number of correct answers inside the cage given under each column. Then, add those numbers and write the number of correct answers in the relevant cage.

Structured essay type and assay type answer scripts:

- 1. Cross off any pages left blank by candidates. Underline wrong or unsuitable answers. Show areas where marks can be offered with check marks.
- 2. Use the right margin of the overland paper to write down the marks.
- 3. Write down the marks given for each question against the question number in the relevant cage on the front page in two digits. Selection of questions should be in accordance with the instructions given in the question paper. Mark all answers and transfer the marks to the front page, and write off answers with lower marks if extra questions have been answered against instructions.
- 4. Add the total carefully and write in the relevant cage on the front page. Turn pages of answer script and add all the marks given for all answers again. Check whether that total tallies with the total marks written on the front page.

Preparation of Mark Sheets.

Except for the subjects with a single question paper, final marks of two papers will not be calculated within the evaluation board this time. Therefore, add separate mark sheets for each of the question paper. Write paper 01 column of the mark sheets and write them in words too. Write paper II Marks in the paper II Column and wright the relevant details. 02 and 03 should be entered numerically in the mark sheets.

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සියලු ම හිමිකම් ඇවිටිනි / மුழுப் பதிப்புரிமையுடையது /All Rights Reserved] ලංකා විනාශ දෙපාර්තමේන්තුව ලී ලංකා විනාශ දෙපාර්ල**ශිලු ලබාා විභාග ලෙදපාර්තමේන්තුව**ාශ දෙපාර්තමේන්තුව ලී ලංකා හත්කතා 11කී කළේ. ඒකකාජයකාර ඔහෝකතා 11කී කිරීම කිරීමෙන් දෙපාර්තමේන්තුව වී කාශ්ය කිරීමෙන්තා ඕනාමන්තා 11කී இலங்கைப் பரி சைத் திணைக்களம் இலங்கைப் பின்றது. தணைக்களம் இதங்கைப் பரி சைத் திணைக்களம் இலங்கைப் பரி சைத் திணைக்கள Department of Examinations, Sri Lanka Department of இலங்கை SHIL இதங்கைப் பரி சைத் கிணைக்களம் இலங்கைப் பரி சைத் திணைக்கள Department of Examinations, Sri Lanka Department of இலங்கை SHIL இதாதிணைக்களுமே, Sri Lanka Department of Examinations, Sri Lanka வியில் குறைகையில் காட்டியில் குறைகளில் குறைகளில் குறைகளில் குறைகளில் குறைகளில் குறைகளில் குறைகளில் குறைகளில் கு விக்கு குறைகளில் குறை விக்கு குறைகளில் குறை අධායන පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2021(2022) கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2021(2022) General Certificate of Education (Adv. Level) Examination, 2021(2022) භූගෝල විදහාව I புவியியல் I Geography T පැය තූනයි අමතර කියවීම් කාලය - මනිත්තු 10 යි மூன்று மணித்தியாலம் மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள் Three hours Additional Reading Time - 10 minutes Use additional reading time to go through the question paper, select the questions you will answer and decide which of them you will prioritise. Index No. : Instructions: * This question paper consists of three parts. Part I consists of 40 multiple choice questions and answers should be provided in the paper itself. * In Part I each correct answer receives one mark. * In Part II both questions should be answered. Part III consists of four questions and answers should be provided only for two selected questions. * * Answer script of Parts I, II and III should be attached together and handed over. For Examiner's use only. Question No. Marks Signature **Code Number** Part I 1 - 401st Examiner 1 2nd Examiner Part II 2 Additional Chief Examiner 3 EMF 4 Part III Chief Examiner 5 6 Total Part I Select the option that contains the correct answer for each question and write its number on the dotted line. 1. Which of the following options is an example for a pair of thematic maps? (1) Choropleth maps and Topographic maps (2) Weather maps and Google maps (3) Topographic maps and tourist maps (4) Dot maps and isopleth maps (5) Topographic maps and density maps (.....) 2. Which is a 1:50 000 combined topographic map sheet of Sri Lanka? (1) Padiyathalawa and Ampara (2) Matara and Tangalle (3) Horowpothana and Trincomalee (4) Buttala and Panama (5) Pothuvil and Komari (....)

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AL/2021(2022)/22/E-I	- 2 -	
	a cultural feature and a physical feature	ature respectively in
a 1:50 000 topographic map of Sr		
(1) Escarpment and sand dune	(2) Paddy land and settlement	
(3) Irrigation canal and river	(4) Relief and slope	
(5) Roads and administrative boun		()
4. What is the most suitable graphi	cal method to depict age composition	n of the COVID-19
infections in Sri Lanka on a give	n day?	
(1) Compound line graph	(2) Dispersion diagram	
(3) Simple line graph	(4) Pie graph	
(5) Multiple line graph		()
5. The inter-quartile range of a data		
(1) the upper quartile and the l	ower quartile	
(2) the median and the lower of	uartile	
(3) the median and the upper of	uartile	
(4) the maximum value and the	minimum value	
(5) the mean and the minimum	value	()
	in a Geographic Information System	1S,
(1) Number of people.	(2) Type of vegetation.	
(3) Level of education.	(4) Location of wells.	
(5) Quality of water.		()
7 Which of the following options s	hows three examples for continuous of	lata?
(1) Height, time and temperature		integ.
		a star white and the second
(2) Weight, distance and number		
(3) Time, precipitation and nun		
(4) Temperature, evaporation an		
(5) Height, number of tanks an	d number of children in a family	()
8. What is the correct option that s	nows three sources of secondary data	?
(1) Aerial photographs, intervie		이 같은 이 가지 않는 것이 같이 같이 같이 했다.
(2) Satellite images, questionna		
(3) Interviews, topographic map		
(4) Interviews, the internet and		
(5) Aerial photographs, the inte		()
(5) Achai photographs, the line	mot and maps	
9. Which answer shows an example	for an input device of Geographic In	nformation System?
(1) Monitor	(2) Computer	
(3) Printer	(4) Scanner	
(5) Plotter		(
		50.000 T. I.
	two drainage features shown in a l	1:50 000 Topographic
map?	and the second	
(1) Braided river and symmetri	cal slopes.	
(2) Meander and tributary.		
(3) Radial drainage and spur.		
(4) Water fall and steep slope.		
(5) Marsh and valley.		,
44 (77)	her strengthen in her it die the	
11. The equipment used to measure		
(1) Anemometer.	(2) Thermometer.	
(3) Hygrometer.	(4) Rain gauge.	
(5) Barometer.		(
10 With at in the second second second	-9	
12. What is the parent rock of gneis		na (5) Sahiat (
(1) Shale (2) Granite	(3) Sand stone (4) Limesto	ne (5) Schist (

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AL/2021(2022)/22/E-1	- 3 -	000
	of rocks is chemically formed?	
(1) Mud and Clay	(2) Peat and Coal	
(3) Gypsum and Hematite	(4) Limonite and Boulder clay	
(5) Sand and Pebbles		()
14. What is meant by 'Albedo'?		
이 집에 가지 않는 것 같은 것 같	d back to space by the earth.	
	perature with increasing altitude.	
	tion absorbed by the earth's surface.	
	following an eruption of a volcano.	
	tion absorbed by the cloud cover.	
(c) Finicent of some fudim	don absorbed by the croad cover.	(
15. The occurrence of Sunspots		
(1) the increase of solar ra		0
(2) the collision with aster		
(3) the impact of the solar	Comparison and States of the second	
(4) explosions in the sun's		
(5) starting of the dying p	process of the sun.	()
16. What is the river catchment	in Sri Lanka which receives the highest average annu	al rainfall?
(1) Kalu Ganga	(2) Walawe Ganga	
(3) Gin Ganga	(4) Maha Oya	
(5) Mahaweli Ganga		()
	tains three landforms created by erosion in mountain g	lacier regions
(1) Cirques, Hanging valle		1 1 1 H H H H H
	mid shaped peaks and Tarn	
(3) Arete, Ribbon lakes an		
(4) Hanging valleys, Tarn (5) Drumling Cirgues and		
(5) Drumlins, Cirques and	U-snaped valleys	()
18. 'Lapse rate' means the rate of	of,	
(1) decline in temperature		
(2) increase in temperature		
(3) decrease in temperature		
(4) cooling of air to reach	the condensation level	
(5) decrease in temperature	e in declining air masses	()
10 What is an anomala fail	and and an landfame?	
 What is an example for a the (1) Ocean basin 		
	(2) V-shaped valley	
(3) Mountain system(5) Continental shield	(4) Ocean ridge	
(5) Continental silieid		()
20. Which of the following option	ns shows two landforms created by compressional force?	
	Step fault (2) Asymmetrical fold and Normal fault	
(1) Symmetrical fold and S		
 Symmetrical fold and S Anticlinorium and Isoc 	linal fold (4) Recumbent fold and Rift valley	
(1) Symmetrical fold and S	linal fold (4) Recumbent fold and Rift valley	()
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and State 	linal fold (4) Recumbent fold and Rift valley ep fault	()
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Ste 21. What is the option that show 	linal fold (4) Recumbent fold and Rift valley ep fault vs a pair of landforms found in a Karst region?	()
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole 	linal fold (4) Recumbent fold and Rift valley ep fault ws a pair of landforms found in a Karst region? (2) Doline and Ox-bow lake	()
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole (3) Uvala and Arete 	linal fold (4) Recumbent fold and Rift valley ep fault vs a pair of landforms found in a Karst region?	
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole 	linal fold (4) Recumbent fold and Rift valley ep fault ws a pair of landforms found in a Karst region? (2) Doline and Ox-bow lake	() ()
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole (3) Uvala and Arete (5) Polje and Uvala 	linal fold (4) Recumbent fold and Rift valley ep fault ws a pair of landforms found in a Karst region? (2) Doline and Ox-bow lake	
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole (3) Uvala and Arete (5) Polje and Uvala 	linal fold (4) Recumbent fold and Rift valley ep fault vs a pair of landforms found in a Karst region? (2) Doline and Ox-bow lake (4) Lapies and Cirque	
 (1) Symmetrical fold and S (3) Anticlinorium and Isoc (5) Overthrust fold and Sta (1) Stalactite and Pothole (3) Uvala and Arete (5) Polje and Uvala (22. An area where Tropical Mon 	linal fold (4) Recumbent fold and Rift valley ep fault ws a pair of landforms found in a Karst region? (2) Doline and Ox-bow lake (4) Lapies and Cirque	() ()

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	Whic	h option correctly shows a Tropic	cal Grassland?	
		Pampas in Argentina	(2) Steppes in Russia	
	(3)	Savanna in Africa	(4) Prairies in North America	
	(5)	Veldt in South Africa		()
4.			ect area entrusted to Sri Lanka by South Asia Cooperative	9
		conmental Programme (SACEP) in t		
	0.00	Tourist Industry	(2) Environmental Impact Assessment	
		Coastal areas Desertification	(4) Community forestry	()
5.			of the characteristics of the youth stage of a river is	s,
	- CO - CO	Velocity of water flow is high.		
	1011-011	Lateral erosion begins.	(4) River gradient is very low.	
	(5)	Carries large amount of water.	0. 7	()
6.	Whic	h country is the largest exporter	of rice in the world at present?	
	(1)	Vietnam (2) India	(3) Bangladesh (4) Thailand (5) China	()
7	. What	is the correct option that shows the	he sectoral contribution to the Gross Domestic Product	i.
		ri Lanka in descending order?		
1		Agriculture, Industries and Servi	ces	
		Services, Industries and Agricult		
	120	Services, Agriculture and Industr		
	12.00	Industries, Agriculture and Service		
	1.0.1.0	Agriculture, Services and Industri		()
	(5)	Agriculture, Services and Industr	ines	()
8	At p	resent, the world population is ap	oproximately,	
		5.9 billion.	(2) 6.5 billion.	
		7.9 billion.	(4) 8.5 billion.	
		9.2 billion.	(1) 5.5 5.115.11	()
	(5)	J.2 Onton.		()
29	. A pe	rson who leaves the country becau	se of ill-treatment due to nationality, religion, ethnicity	/,
	politi	ics or environmental disasters is c	called,	
	(1)	Migrant.	(2) Immigrant.	
		Commuter.	(4) Emigrant.	
		Refugee.		()
			the second se	
50		example for a pull factor affecting	g migration is,	
		Desire to escape war.		
		Poverty in rural areas of a cour	ntry.	
	(3)	Land shortage in rural areas.		
	(4)	Job opportunities in a nearby ci	ity.	
	(5)	Overcrowding in major cities.		()
31	. Two	major demographic trends in Sri	Lanka that can be identified since independence are	э,
31			Lanka that can be identified since independence are nd increasing Crude Birth Rate.	e,
31	(1)	Decreasing Crude Death Rate and	nd increasing Crude Birth Rate.	2,
31	(1) (2)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate.	e,
31	(1) (2) (3)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate.	2,
51	(1) (2) (3) (4)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. nd increasing Maternal Mortality Rate.	
	(1) (2) (3) (4) (5)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. id increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate.	()
	(1) (2) (3) (4) (5) 2. Which	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. nd increasing Maternal Mortality Rate.	()
	(1) (2) (3) (4) (5) 2. White Dry	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct Zone tank village in Sri Lanka?	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. and decreasing Crude Birth Rate. and increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate. ctly shows the four major components of a traditional	()
	(1) (2) (3) (4) (5) 2. White Dry	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. and decreasing Crude Birth Rate. and increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate. ctly shows the four major components of a traditional	()
	(1) (2) (3) (4) (5) 2. White Dry	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct Zone tank village in Sri Lanka? Paddy land, settlement, chena an	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. nd increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate. ctly shows the four major components of a traditional nd forest	([;])
	(1) (2) (3) (4) (5) 2. White Dry (1)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct Zone tank village in Sri Lanka? Paddy land, settlement, chena an Hamlet, village centre, area cent	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. id increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate. ctly shows the four major components of a traditiona nd forest tre and township	()
	(1) (2) (3) (4) (5) 2. White Dry (1) (2)	Decreasing Crude Death Rate an Increasing Infant Mortality Rate Increasing Total Fertility Rate an Increasing Crude Death Rate an Decreasing Infant Mortality Rate ch of the following options correct Zone tank village in Sri Lanka? Paddy land, settlement, chena an Hamlet, village centre, area cent Paddy land, market place, irrigation	nd increasing Crude Birth Rate. and increasing Maternal Mortality Rate. nd decreasing Crude Birth Rate. ad increasing Maternal Mortality Rate. e and decreasing Total Fertility Rate. ctly shows the four major components of a traditiona nd forest tre and township on canal and temple	()

22 – Geography (Marking Scheme) / G.C.E. (A/L) Examination – 2021(2022) / Amendments to be included.

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33. The focus of the Green Revolution was on	1
(1) expanding the area under cultivation.	
(2) increasing the use of organic fertilizer.	
(3) solving the food problem in developing countries.	
(4) consolidating the small holdings into larger estates.	
이 이 것 같은 것	1 1
(5) improving the crop yields in cotton farming.	()
 34. What is the option that shows two major handicraft industries in Sri Lanka located respectively in Pilimathalawa and Ambalangoda areas? (1) wood carving and coir products 	d
(2) brassware and masks	N110
(3) wood carving and clay products	
(4) batik products and Masks	
(5) lacquer ware and coir products	()
	A33
35. The subject of Geography primarily focuses on the	
(1) physical landscape of the earth's surface.	
(2) differences in human activities in the world.	6
(3) development, structure and functioning of human society.	
(4) inter-relationships between human society and environment.	1. 3
	1 5
(5) production, consumption and transfer of wealth in the human society.	()
36 . What is meant by extensive agriculture? (1) Increase the production per unit of input.	
(2) Increase the land area under cultivation.	
(3) Popularizing traditional varieties of crops.	
(4) Increased use of organic fertilizers.	
(5) Application of indigenous knowledge for cultivation.	()
(c) ripplication of margenous monteage for california	()
 37. Which of the following answers is most appropriate to organic farming? (1) It largely depends on agro-chemicals, fertilizers and pesticides. (2) Multinational corporations provide support to organic farming. (3) It is an essential factor of green revolution. (4) It is a method of applying gene technology to farming. 	
(5) It ensures the protection of the quality of soil and people's health.	()
38. Which of the following options shows three places where cement industry in Sri Lanka is located?	s
(1) Puttalam, Galle, Trincomalee (2) Trincomalee, Ekala, Kantale	
(3) Galle, Paranthan, Eppawala (4) Kankesanturai, Galle, Paranthan	
(5) Pelwatte, Embilipitiya, Puttalam	()
39. Which of the following options shows three major tourist zones named by the Tourist Board of Sri Lanka? (1) City of Colomba Southern coast. Ancient cities	d
 (1) City of Colombo, Southern coast, Ancient cities (2) Eastern coast, Sabaragamuwa, North-West (3) Southern coast, Hikkaduwa, Kalpitiya 	
(4) Northern region, Kumana, Pasikuda	
(5) Trincomalee, Madu region, Pigeon Island	()
 40. Three specialized economic centers established by the Government of Sri Lanka to facilitate farmers to sell their agricultural production are, (1) Welisara, Seethawaka and Godakawela. 	8
(2) Ekala, Ratmalana and Hambantota.	
(3) Meegoda, Thambuttegama and Keppetipola.	
(4) Dambulla, Koggala and Biyagama.	
(5) Marandagahamula, Nuwara Eliya and Pallekele.	()
	()

22

SUKS

ශී ලංකා විභාග දෙපාර්තමේන්තුව Department of Examinations – Sri Lanka අ.පො.ස.(උ.පෙළ) විභාගය/G.C.E. (A/L)- 2021 (2022)

විෂයය අංකය Subject No.

Jepe

විෂයය Subject

Geography

ලකුණු දීමේ පට්පාට්ය/Marking Scheme I පතුය/Paper I , Part I

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පුශ්න අංකය Question		පුශ්න අංකය Question	පිළිතුරු අංකය Answer	පුශ්න අංකය Question		පුශ්න අංකය Question	
No.	No.	No.	No.	No.	No.	No.	No.
01.	4	11.	3	21.	5	31.	5
02.		12.	2	22.	4	32.	1
03.	3	13.	3	23.	3	33.	3
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06.	4	16.	<u> </u>	26.	2	36.	2
07.	1	17.	2	27.	2	37.	5
08.	5	18.	<u> </u>	28.	3	38.	1
09.	4	19.	2	29.	5	39.	1
10.	2	20.	3	30.	4	40.	3

ට්රිශේෂ උපදෙස්/Special Instructions:

චක් පිළිතුරකට ලකුණු 01 බැගින්/ 01 Mark for each question

මුළු ලකුණු/Total Marks 01 × 40= 40

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Tana manananan ana karana kar	අධාය සබාඛ	යන පොදු සහතික පතු (උසස් පෙළ) විහාගය, 2021(2022) බ්ப பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2021 (2022) ral Certificate of Education (Adv. Level) Examination, 2021 (2022)	
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Geography			
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		Updaffa T973 -	
		rith a part of the 1:50 000 topographic map of Bibile, published rtment of Sri Lanka. Answer the following questions based on the	
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N.D.		Square No survey of Grants and Statistics, Sri Lunko, 2	
	vers shoul	ld not be written on the topographic map.	
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	the admini ateral D.	istrative boundary in quadrilateral (C) and the settlement pattern in	
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		Part III		
. Answer the followi	ng questions bas	ed on the data given in Tab	le 1.	
Table 1: Paddy yie	elds in Yala seas	on in selected districts of Sr	i Lanka - 2020	
	District	Average paddy Yield (kg/ ha)		
	Colombo	3 281		
	Gampaha	3445		
	Matara	3 5 7 3		
	Kegalle	3731		\mathbf{a}
	Kandy	4099		
	Batticaloa	4582		
	Badulla	4973	C^{\prime}	
	Matale	5 0 3 0	in all a table to a star	mr
	Vavuniya	5520	n mantante (garand as	(d)
	Hambantota	5986	S	(100)
S	Source- Departmen	nt of Census and Statistics, Sri	Lanka, 2020	N. 8
(i) Describe in bri of Sri Lanka h	ef, how the Nati	vields per hectare in the distr	attadolational (D). Nume das Christic Attachese	1
		ional office system of the 1	50 000 topographic map	(03 marks)
(ii) Explain what Information Sys	is meant by sp	patial data and non-spatial		Light
Information Sys	is meant by sp stem. differences betwee techniques	patial data and non-spatial een the aerial photographs	data in a Geographic and satellite images as	(04 <i>marks</i>)
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- 6. Using the data given in Table 2 answer the following questions.
 - Table 2: Estimated mid year population of Sri Lanka, by age group and sex 2019 (in thousands)

Age Group	Male	Female	Total Population
0 - 9	1889	1 856	3 745
10 - 19	1 374	1 754	3 128
20 - 29	1 591	1 714	3 305
30 - 39	1 588	1 676	3 264
40 - 49	1 370	1 462	2 832
50 - 59	1 1 5 8	1 286	2 444
60 - 69	758	899	1 657
>70	424	610	1 034

Source: Registrar General Department, Sri Lanka, 2020

- (i) Draw a pyramid graph to represent the age and sex structure of the population of Sri Lanka in 2019 as given in Table 2. (08 marks)
- (ii) Discuss **four** salient features of population by age and sex in Sri Lanka that can be observed from the graph you have drawn in 6(i) above. (04 marks)
- (iii) Explain three advantages of the pyramid graph as a cartographic technique. (03 marks)

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§ ஒலை சிலல ஜோட்மைசேவ்லும் இ ஒலல் சிலல ஜோட்ட இன்னுக்க இலங்கைப் பரீடனசத் திணைக்களம் இலங்கைப் பரசனசத் Department of Examinations, Sri Lanka Department of இலிங்க இ ஒலல் சிலல ஜோட்மைசில்லும் இ ஒலல் சிலல ஜோட்டுகிகர்கள் இலங்கைப் பரீடனசத் திணைக்களம் இலங்கைப் பரீடனசத்	வைக்குவம் இஜன்றைகுக்குக்குக்குக்குக்குக்குக்குக்குக்குக	මන්තුව කෙඟා Lanka මන්තුව කෙඟා
අධායන පොදු සහා கல்விப் பொதுத் தராத	තික පතු (උසස් පෙළ) විභාගය, 2021(2022) தரப் பத்திர (உயர் தர)ப் பரீட்சை, 2021(2022) Education (Adv. Level) Examination, 2021(2022)	
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<i>சாය </i>	අමතර කියවීම් කාලය - මිනිත්තු 10 மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்க Additional Reading Time - 10 minutes	ள்
	h the question paper, select the questions you will answer and hich of them you will prioritise.	
Instructions: * Selecting at least two questions from e	each part, answer five questions only.	
Part I	- Physical Geography	
(i) What is meant by a system?	(02 m	arks)
(ii) Briefly describe three characteristics	s of the biosphere. (06 m	arks)
(iii) Explain in brief the significance of		
(iv) Examine three human activities that		
· /		
(i) Name two ways of erosion associat	ted with ocean waves. (02 ma	arks)
And a second second constant and a second second second second	dforms created by ocean waves in coastal areas	
	hal landforms in the coastal areas with diagrams	
(a) Tombolo		
(b) Sand Spit	(06 <i>ma</i>	arks)
(iv) Explain briefly three measures whi	ich have been taken by the Coast Conservation	
Department of Sri Lanka to protect	the coastal environment. (06 ma	ırks)
(i) What is meant by over use of wat	er resources? (02 ma	arks)
(ii) Briefly discuss three fields where w	water resources are over uses. (06 m	arks)
(iii) Explain briefly three measures that resources.	at can be taken to prevent over use of water (06 ma	arks)
(iv) Discuss three measures that could resources in Sri Lanka.	be adopted to prevent the pollution of water (06 ma	arks)
(i) What is meant by 'Greenhouse Effe	ect'? (02 ma	arks)
	responsible for global climate change? (06 m	
(iii) Discuss with three examples, effect	1	
	Coo m	1

Part II - Human Geography

5. Data on urbanization in the world for the period from 1950 to 2030 are given in **Table 1** (Percentage of urban population).

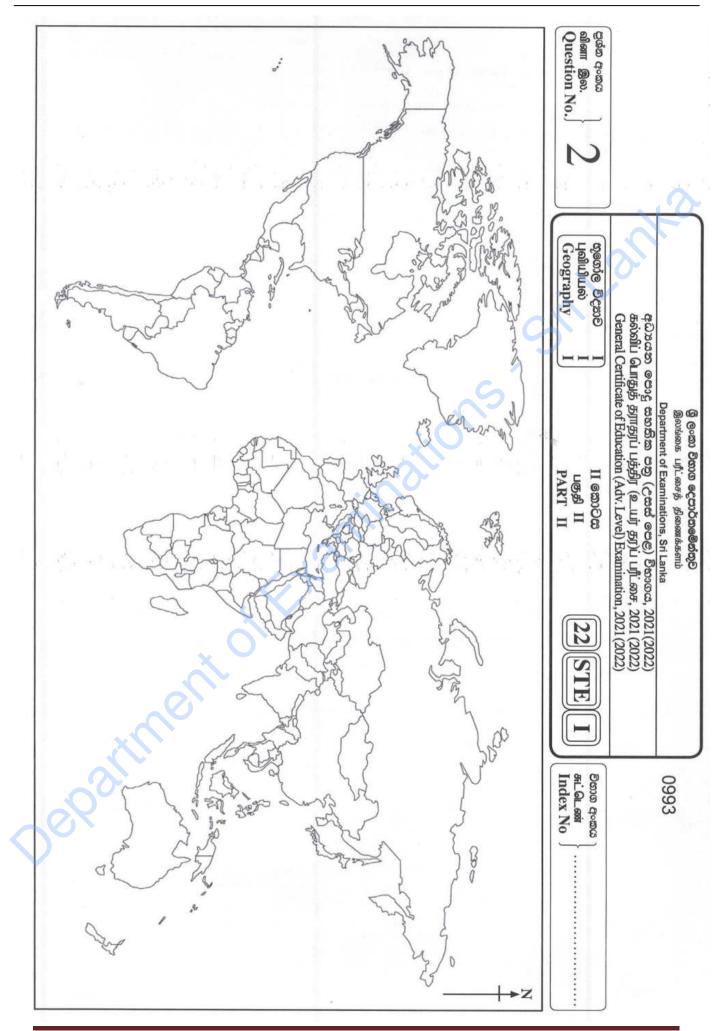
Table 1: Urbanization in the World by Major Regions (1950-2030)

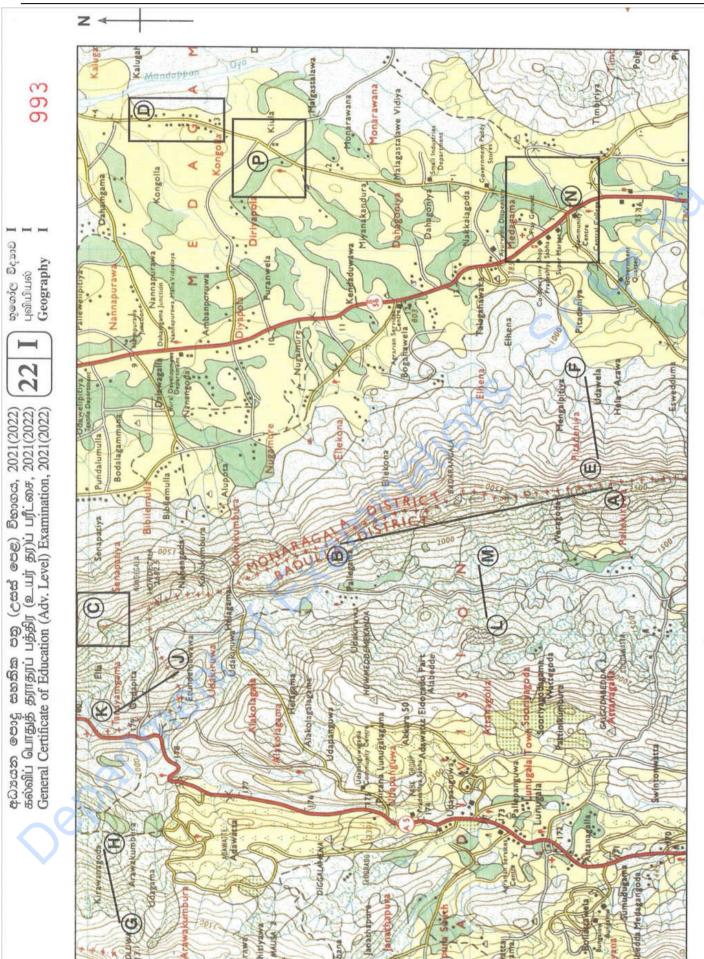
Region	Year				
	1950	1970	1990	2010	2030*
Africa	14.3	22.6	31.5	38.9	48.4
Asia	17.5	23.7	32.3	44.8	56.7
Europe	51.7	63.1	69.9	72.9	77.5
Latin America and the Caribbean	41.3	57.3	70.7	78.6	83.6
North America	63.9	73.8	75.4	80.8	84.7
Oceania	62.5	70.2	70.3	68.1	68.9
More Developed countries	54.8	66.8	72.4	77.2	81.4
Less Developed countries	17.7	25.3	34.9	46.1	56.7
World	29.6	36.6	43.0	51.7	60.4

* Projected

Source : United Nations, World Urbanization Prospects (2018 Revision).

	(i)	What is meant by the level of urbanization of a country?	(02	marks)
	(ii)	Describe in brief any four characteristics of the urbanization revealed by the data		
		given in Table 1.	(06	marks)
	(iii)	Explain in brief three factors that affect the level of urbanization in a country.	(06	marks)
	(iv)	Examine three favourable impacts of urbanization.	(06	marks)
6.	(i)	What is meant by population ageing?	(02	marks)
	(ii)	Discuss two major factors responsible for population ageing.	(04	marks)
	(iii)	Examine with examples, three impacts of population ageing, on the economy of a country.	(06	marks)
	(iv)	Discuss in brief four measures that could be taken to solve the problems posed by population ageing.	(08	marks)
7.	(i)	What is meant by manufacturing industries?	(02	marks)
	(ii)	Describe briefly with three factors how transport affects the location of manufacturing industries.	(06	marks)
	(iii)	Explain in brief three salient features of traditional handicraft industry in Sri Lanka.	(06	marks)
	(iv)	Examine three contributions of manufacturing industries to the economic development		
	2	of Sri Lanka.	(06	marks)
8.	(i)	State four sectors in Globalization.	(02	marks)
	(ii)	Explain two drivers of globalization with three features of each driver.	(06	marks)
	(iii)	Describe three advantages and three disadvantages of globalization for the developing Countries.	(06	marks)
	(iv)	Discuss three ways how the current COVID - 19 pandemic has affected the globalization		
	usud ti	process.	(06	marks)
		* * *		





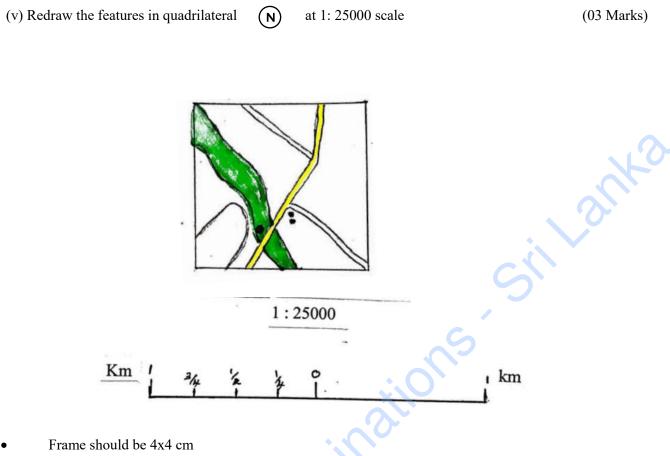
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(B) Name the physical feature marked by the line (A) 1. (i) -Water Divide / Mountain range (01 mark) (ii) Name the administration boundary in quadrilateral (C) and the settlement pattern in quadrilateral (D) Divisional Secretariat Division Boundary (C) Linear Settlement pattern (02 marks) (D` (iii) Name the four landforms shown by the lines and (E K) G (M) L) _ (E) _ (F) Concave slope (н) Gentle slope / Uniform slope . (K) Spur Μ Valley/River Valley $(4 \text{ x} \frac{1}{2} = 02 \text{ marks})$ (iv) State four service providing institution located within the quadrilateral (N) Central college/School **Community Centre** Supermarket Pradeshiya Sabha **Cooperative Shop** Post Office Hospital $(4 x \frac{1}{2} = 02 \text{ marks})$ Sebautuut

Paper I - Part II



- Scale should be either scale bar or proportional scale
- Redraw all the features

Frame	-	01
Scale	-	01
Accurate features	-	01
(Total marks	-	03)

(vi) Explain **two** physical factors that determine the distribution of paddy cultivation in the map area.

i) Wide Plain

The presence of a lowland area with an elevation of approximately 800 feet has directly allowed the expansion of paddy cultivation. The plain extended from the Central mountain range to the East is used for this purpose.

ii) Tributaries/ Streams

The tributary/Stream that starts from the mountain in the middle of the map area flows in a Northeastern direction and join another tributary/stream, Mandappan oya. It appears that paddy cultivation is being carried out in the wide valley area by using the water supplied by these tributaries/streams. This drainage pattern has helped the expansion of paddy cultivation in the area.

(2x2=04 marks)

- (vii) Explain in brief, **four** factors limiting the human activities in the Northwestern quarter of the map area.
 - High altitude.
 - Steep slopes
 - Deep valleys
 - Large areas under forest
 - Large areas of grassland
 - Large reservation areas
 - Poor transport facilities
 - Have to travel long distance for basic requirements

(06 marks)

2. Mark and name the following in the world map provided using conventional symbols and color.

- 1. Drakensberg Mountains
- 2. Tierra del fuego Island
- 3. Gobi Desert
- 4. Lake Michigan
- 5. Strait of Gibraltar
- 6. Hudson Bay
- 7. Downs Grasslands
- 8. Iceland
- 9. Longest River in the world
- 10. The city where the head office of UNESCO (United Nation Educational, Scientific and Cultural Organization) is located Paris in France

(10x1 = 10 marks)

Consider following color and symbols for map marking

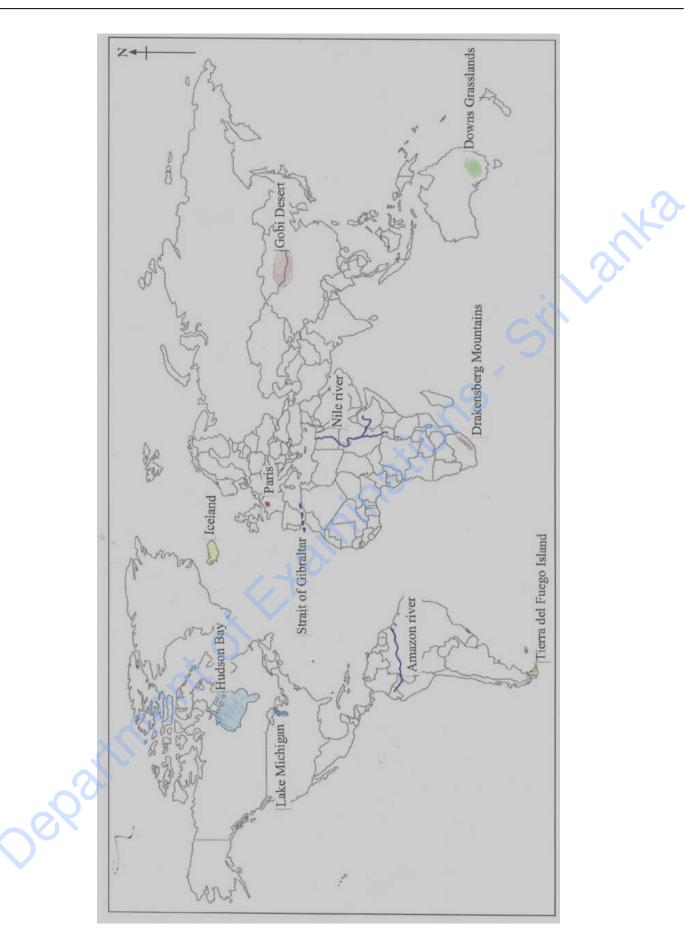
• Strait

- Bay, Laggon, Tank or reservoir, River/stream/tributary
- City or Town
- Grassland or Park
- Mountain range
- Deserts

- Broken blue line across the strait
- Blue colour
- Red dot

- Nile river/Amazon river

- Green color
- Brown color
- Brown or Yellow colour



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3. Answer the following Questions based on the data given In Table 1.

Table 1: Paddy yields in Yala season in selected districts of Sri Lanka - 2020

District	Average paddy yield (kg/ha)	Deviation (b)
Colombo	3281	-1141
Gampaha	3445	-977
Matara	3573	-849
Kegalle	3731	-691
Kandy	4099	-323
Batticaloa	4582	160
Badulla	4973	551
Matale	5030	608
Vavuniya	5520	1098
Hambantota	Hambantota 5986	

Total = 44,220

Mean
$$= 4422$$

$$MD = \underbrace{\sum |X - \overline{X}|}_{n}$$
$$= \underbrace{\frac{7962}{10}}_{n} = 796.2$$

 \underline{X} = Values of the Variable

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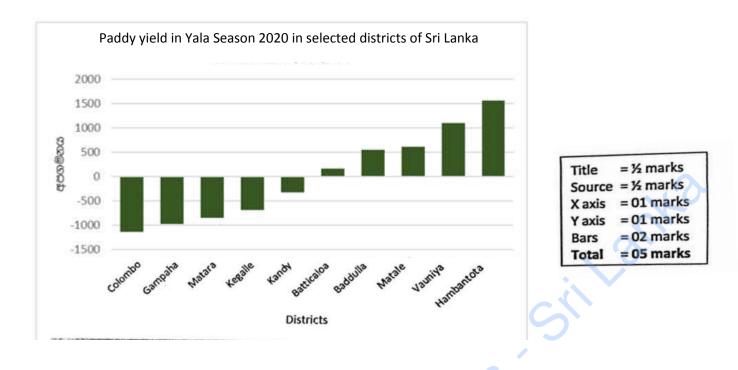
- $\frac{X}{X} = Values$ $\frac{X}{X} = Mean$
- N = No of districts

- a) Mean
- b) Calculation of deviations by district

ations

- (01 marks) (02 marks) (01 marks)
- c) Calculation of mean deviation
 - (UT IIIai KS)

(01marks)



- (iii) Based on the graph you have drawn in 3(ii) above, describe in brief three salient features of the average paddy yields per hectare in the district.
 - 1. Average paddy yield shows variations by districts.

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- 2. Paddy yield of five districts (Colombo, Gampaha, Matara, Kegalle and Kandy) are below the mean yield.
- 3. Paddy yield of five districts (Batticaloa, Badulla, Matale, Vavuniya, Hambantota) is above the mean yield.
- 4. Hambantota and Vavuniya district have the highest paddy yield
- 5. The lowest paddy yield is recorded in Colombo and Gampaha Districts

(3x02 = 6 marks)

(4) (i) Describe in brief, how the National Grid System of the 1:50 000 topographic map of Sri Lanka has been decided.

Topographic map of Sri Lanka is based on two coordinate systems

1. Global coordinate Systems (WGS 84)

- 2. National Grid Systems (Kandawala)
- In the National Grid System Piduruthalagala was considered as the base point for mapping. It is also known as the point of Kandawala.
- A false base point has been setup in the Southwestern Sea of Sri Lanka to prevent a part of country incorporating the minus coordinates and to include the whole country into coordinates with plus values.
- From this base point of Piduruthalagala, 200 kilometers to the West and 200 Kilometers to the was changed to 500 kilometers to the West and 500 Kilometers to the South from Piduruthalagala to conduct the National Grid.

(03 marks)

(ii) Explain what is meant by spatial data and non-spatial data in a Geographic Information System.

Spatial Data

Spatial Data means the geographical features represented by polygons, lines (polyline) and points. These spatial data can be located by a coordinate system.

Non-Spatial Data

Non-Spatial data means attributers related to spatial data. For Example, land extent within a polygon, length of the road (line), number of people living in a city (point).

(2x02 = 04 marks)

(iii) Compare **two** differences between the aerial photographs and satellite images as remote sensing techniques.

Aerial Photographs	Satellite Images				
 Aerial photographs are taken by an aircraft equipped with special camera 	• Images are taken from Satellite moving along in an orbit				
• These photographs are taken at lower altitudes	• Images are taken at very high altitude				
• Aerial photographs are prepared in both printed and digital form	• The information available on the ground captured by images are given in digital form				
• Aerial photograph shows only the surface features of the earth	• Satellite images portray not only the surface features but also the sub surface features				
Human guidance is necessary to take photographs	• The satellite images are taken automatically				
• Aircrafts taking photographs are operated at decided time and periods	• They are taken from satellites rotating around the earth				
	They are rotating at regulate intervalsSometimes they cover entire Globe				
Aerial photographs cover small area	• Satellite images cover wider area				
(2x02 = 04 marks)					

(iv) Explain how useful is a map for a tourist arriving in Sri Lanka with four examples.

A tourist can use either a printed map or a digital map. The Following information can be easily derived by using such maps.

- Locate the destination
- Easy access to destination
- Calculate the distance
- Finding attractive places
- Finding accommodation and related facilities
- Finding better services
- Finding governmental services
- Finding information such as security and health care facilities
- Finding easiest and shortest routes

5.

- (i) State **two** uses of interviews as a method of data collection
 - The interviews allow the required information to be obtained accurately as far as possible.
 - Unclear information can be verified again.
 - It is most appropriate to find out people's attitudes, opinion's etc. through direct contact.
 - It allows probing of in depth information.
 - A researcher gets an opportunity to gather a lot of information and data relevant to the research objectives.

$(2 \times 1 = 02 \text{ marks})$

 $(4 \times 1 = 04 \text{ marks})$

- (ii) Name Three techniques in practical Geography used in the presentation of information
 - Maps
 - Graphs
 - Photographs and images
 - Statistical methods
 - Computers

(3 x1 = 03 marks)

(iii) Selecting two of the techniques you have mentioned in 5 (ii) above and describe two uses of each.

Maps

- Presenting details information concisely
- Ability to show spatial distribution
- Can be used to show temporal changes
- Can be used in various scales
- Can be interpreted easily

Graphs

- Ability to represent statistical/numerical data and information
- Possibility to use different graphical methods
- Ability to represent temporal changes
- Useful for spatial data representation
- Can be interpreted easily

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Photographs and Images

- Possibility to use different types of images
- Ability to use surface photograph from ordinary camera
- Use of Aerial photos
- Utilization of imagery as a modern technique
- Can be interpreted easily

Statistical Methods

- Data analysis
- Use of specific statistical indices
- Ability to apply a variety of statistical methods
- Can be interpreted easily

Computers

- Storage of data and information
- Data analysis
- Data processing
- Data display
- Data update
- Teaching and learning process

(2 x 01) x 2 = 04 marks))

(iv)Discuss in brief, the importance of practical Geographical techniques in disaster management with three examples

- Identify the places where the disasters occur.
- Identify disaster prone areas
- Modeling vulnerable areas
- Identify the safe places and routes
- Planning of recovery activities
- Building a database related to disasters

(3 x 02 = 06 marks)

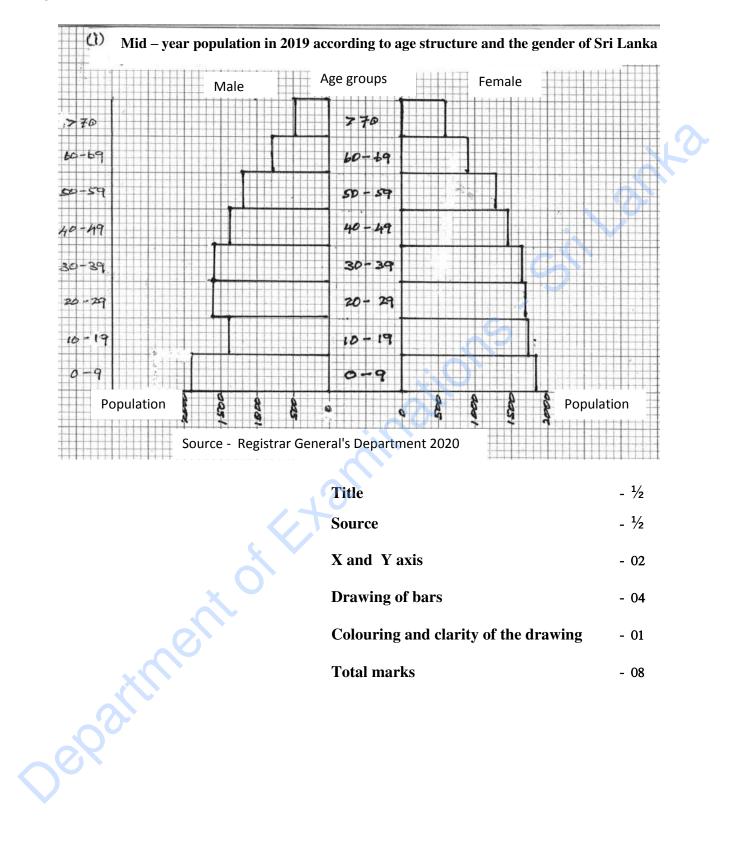
6.

1. Using the data given in **Table 2** answer the following questions

Table 2 – Midyear population in 2019 according to the gender and age structure of Sri Lanka (in thousands)

Age group	Male	Female	Total population
0-9	1889	1856	3745
10 – 19	1374	1754	3108
20 - 29	1591	1714	3305
30 - 39	1588	1676	3264
40 - 49	1370	1462	2832
50 - 59	1158	1286	2444
60 - 69	758	899	1477
>70	424	610	1034

Source - Registrar General's Department, 2020



(i) Draw a pyramid graph to represent the age and sex structure of the population of Sri Lanka in 2019 as given in **Table 2**

- (ii) Discuss four salient features of population by age and sex in Sri Lanka that can be observed from the graph you have drawn in 6 (i) above.
 - Shape of the pyramid is moving away from the shape of the typical development country age pyramid
 - The female population is relatively higher than the male population except the age category of 0-9
 - Show a gradual decline of the female population
 - Male population does not show such a gradual decline
 - There is a conspicuous contraction in the 10 -19 years male age group
 - The female population remains higher in the population over 70 years and above
 - Male and female adult population groups are more or less the same
 - The labour force is higher compared to the dependents

 $(4 \times 01 = 04 \text{ marks})$

(iii) Explain three advantages of the pyramid graph as a cartographic techniques

• Ability to present the population structure of a country

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- The state of the population can be identified stable, expansive or declining
- Can predict the future trends in population from the age pyramid
- Ability to identify the number of dependents in relation to the labor force
- Ability to understand issues affecting the future development of a country
- There are no other graphical methods that can display such data in a single graph

 $(3 \times 01 = 03 \text{ marks})$

Paper II

Part I – Physical Geography

(1) (i) What is meant by a system ?

- System is a structure comprising a number of interrelated components operating within a specific boundary.
- Objects or a collection of objects connected to each other resulting in a structure is called a system.

(02 Marks)

(ii) Briefly describe three characteristics of the biosphere

- Biosphere is the constantly active sub system of the geo system
- The environment within which all plants and animals live belongs to the biosphere
- Organisms ranging from micro organisms to gigantic animals and plants ranging from algae and lichens to large trees comprise the biosphere
- Air from the atmosphere, water from the hydrosphere and land, rocks and soils of the lithosphere are essential for the existence and functioning of the biosphere
- Biosphere consists of several organizational levels which are separable from each other distinctively
- Biosphere shows a biodiversity i.e., the diversity of its animals and plants
- Biosphere has created the interaction between the lithosphere, hydrosphere and atmosphere

Plant and animal species in the biosphere do not exist in isolation but depend on and interact with each other

 $(3 \times 02 = 06 \text{ Marks})$

(iii) Explain in brief the significance of the biosphere with three factors

- The biosphere plays an integral role in supporting the life of organisms and their interactions
- It is a vital element in climate regulation. Any change in the biosphere triggers a change in climate
- Ecosystems help the cycling of nutrients
- Biosphere regulates various animal and plant populations
- It helps to maintain the stability of biological communities

 $(3 \times 02 = 06 \text{ Marks})$

(iv) Exmine three human activities that adversely affect the biosphere

- Deforestation can have an impact on the biosphere by seducing the quality of the land, as it makes the soil loose and increase the erosion
- Overgrazing reduces the usefulness, productivity and, biodiversity of the land.
- Over use of agro chemicals in farming activities
- Degradation of environment due rapid urbanization
- Improper dumping of waste and discharging contaminated water in the biosphere
- Soil degradation and salinization due to agricultural practices
- Inappropriate mining and quarrying

(3× 02 = 06 Marks)

(2) (i) Name two ways of erosion associated with ocean waves

- Hydraulic actions
- Corrosion
- Abrasion

(02 Marks)

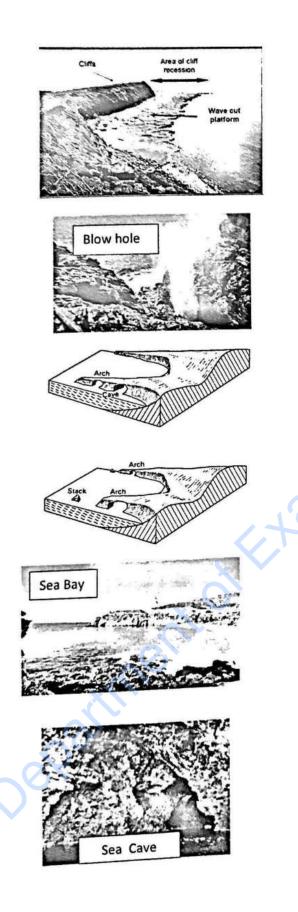
(ii) Briefly describe three landforms created by coastal erosion with suitable diagrams

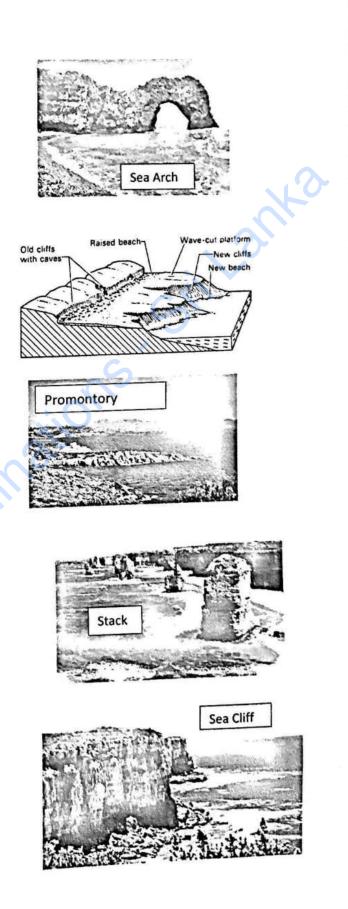
• Sea Cliffs: A sea cliff is a steep coastal slope created by the erosive power of waves at its base. Cliffs are the most common features of coastal erosion. As waves attack the shore, the

Headlands are eroded, producing steep sea cliffs. Cliffs are usually formed by rocks resistant to weathering and erosion

- Sea Caves: Sea caves are formed in the headland of a sea cliff by wave action. The primary process involved is erosion. Sea caves occur on almost every cliffs' headland or coast where the waves break directly on a rock cliff and are formed by mechanical erosion rather than the chemical solution process. Sea caves are found throughout the world, actively forming along the coastlines.
- Wave cut Platforms: A wave cut platform develops because of wave abrasion. It is a gently sloping rock ledge that extends as coastal benches, or wave cut benches as a narrow flat bedrock surface often found at the base of a sea cliff or along the shoreline of a bay or sea.
- Sea Arches: A natural rock formation where an arch is formed with an opening underneath. Natural arches commonly form where inland cliffs, and stacks are subject to erosion from the sea.
- Sea stacks: A sea stack is a geometrical landform consisting of a steep and often vertical columns of rock near a coast, formed by wave erosion. Stacks are formed over time by wind and water processes of coastal geomorphology. Eventually, the erosion will cause the stack to collapse.
- **Promontory** (Headland): The definition of a promontory is a high elevation or point of land that extends out into the sea. An example of a promontory is Dondra Head in Southern coastal belt. At headland, wave erode along the line of weakness, e.g. : fault line or joint, that lie or joint, that lines across the headland. Most promontories are formed from a hard ridge of rock that has resisted the erosive forces that have removed the softer rock to the sides of it.
- **Blow Hole:** A blowhole or marine geyser is formed as sea caves grow landwards and upwards in to vertical shafts and expose themselves towards the surface, which can result in hydraulic compression of seawater that is released through a hole from the top of the blowhole. The formation of a blowhole system begins as a littoral cave is formed. The main factors that contribute to littoral caves formation are wave dynamics and parent material's rock property
- Sea Bay: A Bay is a recessed, coastal body of water that directly connects to larger main body of water, such as an ocean or even another bay.

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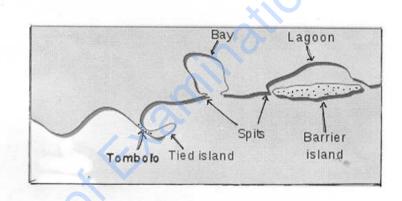


(3× 02 = 06 Marks) (Description = 01 and Diagram = 01) (iii) Depict the following two depositional landforms in the coastal areas with diagrams and explain their physical features

- a) Tombolo
- b) Sand spit

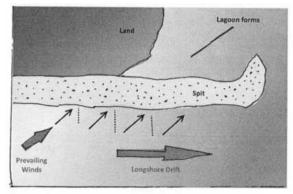
(a) Tombolo

- A narrow piece of land made of sediment such as gravel that connects an island to the mainland or another island
- Wave refraction causes deposit of sediments between the island and mainland.
- Two or more tombolo may form an enclosure that can eventually fill with sediment
- The sediments that make up a tombolo are coarser towards the bottom and finer towards the surface. It is easy to see this pattern when the waves are destructive and wash away finer grained material at the top, revealing coarser sands and cobbles at the base



(b) Sand spit

- A narrow point of sandy land projecting into the sea
- A sand spit is a deposition bar or beach land from off coasts
- It develops in places where deposition occurs by the process of long shore drift of long shore currents
- Spits, composed of sand or pebbles, are formed by the long shore movement of sediments
- They often are completely curved with a characteristic of a curved head (hook). This probably results from the refraction of waves around the spits end.
- Along narrow accumulation of sand or gravel



(2× 03 = 06 Marks) (Description = 02 and Diagram = 01)

- (iv) Explain briefly three measures which have been taken by the Coast Conservation Department (CCD) of Sri Lanka to protect the coastal environments.
 - Issue of permits for activities associated with the coastal area
 - Regulation of sand mining and coral mining
 - Inspection of coastal region environmental activities
 - Inspection of coastal region engineering activities
 - Constructions of coastal protections

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- Implementation of coastal security measures during disaster situation
- Formulation of national coastal region management plan
- Implementation of management activities in specifically selected wasted areas
- Implementation of educational programs related to coast conservation
- Cooperative action taken with other relevant institutions for coastal protection

 $(3 \times 02 = 06 \text{ marks})$

- 03. (i) What is meant by over use of water resources?
 - When the withdrawal of water is more than its recharge rate in a particular area it is called over use of water resources
 - Over use of water resource is referred to the extraction of water for irrigation and human consumption is more than the rechargeable rate

(02 marks)

(ii) Briefly discuss three fields where water resources are over – used.

Over – use of water resources could be directed along with four sectors.

• Food Production

Of the total quantity of fresh water 60% is spent on food production and according to the irrigation techniques practiced, 50% of the water used is wasted. It leads to over exploitation of water resources.

• Industrial Sector :

In industrial activities also the over – use of water resources takes place. A huge amount of water is used in industries like textiles and ceramic. In our country huge amount of water is used in activities such as washing, mining, concrete production and construction industry etc. These activities cause to over – use of water resources.

Household Consumption

On every occation in daily water consumption, an over use of water takes place. In washing (Clothes, Vechicles and othe daily activities), water is used in quantities more than the required amount.

Environmental Beautyfication

In our country, water is used in large quantities in environmental benification activities. In such activities, water is wasted. The situation becomes worse since it uses the drinkable water

 $(3 \times 02 = 06 \text{ marks})$

(iii) Explain briefly three ways of preventing over use of water resources.

- Use of water in demecrotic activities avoiding wastage
- Use of rain water
- Re use of water after purification
- Avoid water wastage and over use by using morden equipment
- Maintain good water management practices in agriculture
- Awareness among people on preventing over use

$(3 \times 02 = 06 \text{ marks})$

- (iv) Disucess three measures that could be adopted to prevent the pollution of water resources in Sri Lanka
 - Adoption of measures to dispose human waste
 - Recycling of waste and human waste
 - Imposing limitations on the use of chemical fertilizers, weedicides and pesticides.
 - Enactmant of laws on industrial waste disposal
 - Minimization of sand miniing, other mining activities and extraction of clay
 - Awareness on preventing the pollution of water
 - Punishment for people who violate the rules and regulations
 - Release of water without waste in industrial activities
 - Awareness of people on laws and regulations
 - Stop ilegal contruction in water resource areas

 $(3 \times 02 = 06 \text{ marks})$

(4) (i) What is meant by "Greenhouse Efects"?

Greenhouse effect is a natural process. It results in warming up of the earth surface and atmosphere. Without the greenhouse effects the Earth's tempreture would be below freeziing level

• However as we add greenhouse gases to the atmosphere, it warms up our planet. Natural greenhouse is necessary for creating a favourable environment for existence of life

(02 marks)

(ii) Explain three anthropogenic factors responsible for global climate changes

The average of the weather condition over a period of 30 years is considered as normal climate. The long-term changes in the climate is called climate change. When the greenhouse gases are released by human activities, it is called anthropogenic climate change.

Anthropogenic factors

• Fossil fuel burning

Humans are creating most of the current changes in the climate by burning fossil fuels, coal, oil and natural gases. Nitrous oxide is generated by burning fossil fuels. Over a period of 200 years since the industrial revolution, the amount of the carbon dioxide in the atmosphere has increased by about 30 per cent.

• Industrialization

Industrialization could be named as a major anthropogenic activity that has contributed to climate changes. A number of greenhouse gases are added to the atmosphere in this process. Carbon Dioxide (CO_2), Nitrous Oxide (N_2), Methane (CH_2), Hydroflurocarbon (HFC_s), Sulfur Hexafluoride (SF₆), Perfluorocarbon, (PHC_s), Nitrogen fluoride (NF₃) are among them of the total greenhouse gas emission. Nineteen per cent of greenhouse gases has been contributed by industrial activities and the major contributors are developed and industrial countries.

• Agriculture

The arable land area of the earth is about 40-50 per cent of the total area. In the agricultural process, the greenhouse gases such as carbon dioxide, methane and Nitrogen Oxide are emitted to the atmosphere. Emission of methane from paddy fields and application of fertilizers with Nitrogen have been responsible for this situation. The greenhouse gases are emitted during the production of chemical fertilizers. The life span of the Nitrogen oxide emitted by agricultural activities are about 150 years. It immediately contributes of global warming.

Livestock Farming

The livestock sector contributes about 14.5 per cent of global GHG emissions. Livestock is a highly significant source of methane emissions, contributing 34 - 50% of methane emission worldwide. Though Methane released by cattle is short lived than carbon dioxide, it contributes more than 28 % of the global warming. Livestock farming activities through greenhouse effect contribute to climate change. Animal waste, Urine and rumination contribute to the emission of methane gas.

• Deforestation

A key contributor of human impact on climate change is deforestation. When forests are cleared or brunt, they release carbon to the atmosphere. Deforestation and burring of bio mass immediacy contribute to emission of greenhouse gases. According to current estimates, the amount of carbon absorbed by forests is around 250 metric tons per hectare. The ability to absorb carbon dioxide in the atmosphere by plants is lost due to deforestation.

 $(3 \times 02 = 06 \text{ marks})$

(iii). Discuss with three examples the effects of the global climate change

- Rise in sea level (up to 18 59 cm), melting glaciers and warming oceans.
- The global temperature could increase from 1.1 to 6.4 in the 21st century due to occurrence of wild fires.
- Frequent periods of high temperatures and wild fires.
- Frequent periods of high temperatures and heat waves.
- Draughts, cyclones and storms could occur.
- Decrease in agricultural production.
- Negative effect on human health.
- Weather related disasters and displacement of people, leaving many more vulnerable to poverty.
- Heavy rainfall, flooding and erosion
- Deserts are expanding reducing land for growing food.
- More carbon dioxide makes ocean are more acidic endangering marine life.

Department of Examinations - Sri Lanka

- (iv) Examine in brief three measures that have been taken by the Government of Sri Lanka to mitigate the impact of climate changes
 - Establishment of the national focal point to the UNFCCC and its Kyoto Protocol (KP) under the United Nations Frame work Convention on Climate Change (UNFCCC). Establishment of climate change secretariat (CCS) for Preparation of national Climate change policy of Sri Lanka, Establishment of climate fund.
 - Green Agriculture (Climate smart agriculture); Soil conservation Water efficiency, Organic farming techniques, Gradual transformation of existing plantations and other farmlands in eco – friendly farms and lands.
 - Green Industries; cleaner and efficient use of energy, green trading paperless society
 - Promoting Green cities and buildings: location specificity, design specificity, waste management, and energy efficiency, material efficiency, water efficiency, occupation health and safety
 - Explore the potential of cleaned renewable energy sources of the country and enhance their production, accessibility and affordability.
 - Awareness of people to avoid the climate change actions
 - Establishment of emission testing centres for vehicles to reduce air pollution
 - Promoting eco tourism
 - Promoting the use of electric cars to reduce use of fossil fuel.

 $(3 \times 02 = 06 \text{ marks})$

C + 2 m					
Region	Year				
	1950	1970	1990	2020	2030*
Africa	14.3	22.6	31.5	38.9	48.4
Asia	17.5	23.7	32.3	44.8	56.7
Europe	51.3	63.1	69.9	72.9	77.5
Latin America and Caribbean	41.3	57.3	70.7	78.6	83.6
North America	63.9	73.8	75.4	80.8	84.7
Oceania	62.5	70.2	70.3	68.1	68.9
More Developed countries	54.8	66.8	72.4	77.2	81.4
Less Developed countries	17.7	25.3	34.9	46.1	56.7
World	29.6	36.6	43.0	51.7	60.4

(5)

- (i) What is meant by the level of urbanization of a country?
 - The number of people living in areas designated as urban as a percentage of the total population of that country is considered as the level of urbanization.

(02 marks)

(ii) Describe in brief any four characteristics of the urbanization revealed by the data given in table 1.

- The level of urbanization of the world has continuously increased.
- In general, in all regions of the world the level of urbanization has increased.
- Up to 1990, the level of urbanization of the world population was below 50 per out of the total world population.
- Since 2010, according to the table, the urban population of the world has been more than 50 percent of the total world population
- There are considerable variations in urbanization levels by regions of the world.
- In 2010, 77.2 percent of the total population in the more developed countries was urban. In comparison, only 46.1 percent of the total population in the less developed countries was urban. this difference will continue in to the year 2030 also.
- African Continent is the least urbanized region in the world (38.9 percent in 2010). In the year 2030 too, it will remain as the least urbanized region in the world.
- North America is the most urbanized region in the world. In 2010, 80.8 percent of the total population of North America was urban. In the year 2030 too, it will be the most urbanized region in the year 2030 too, it will be the most urbanized region in the world (84.7%).

 $(4 \times 1 \frac{1}{2} = 06 \text{ marks})$

(iii) Explain in brief three factors that affect the level of urbanization in country.

• Criteria used for deciding the level of urbanization:

To identify the level of urbanization in a country, various criteria are used. they are as follows:

- Administrative boundary, population size, population density, percentage of the labor force engaged in non - agricultural activities, availability of infrastructure facilities such as electricity, pipe borne water supply.

- Some Countries use only single criteria while others use them in Combination. As such, the level of urbanization vary from one country to another.
- Rural Urban migration: Many people migrate from rural areas urban areas in search of the better life in terms of employment, income, education and health facilities etc.
- Natural increase of population in urban areas:
- Infrastructure development: development in rural areas many retard the migration to urban areas as regional development brings many facilities to rural areas.
- Government Policies: establishment of growth poles will attract industries and service sand there by encourage migration into urban areas.
- Industrialization: establishment of industries in urban areas will attract people from rural areas. This has been a major factor in the urbanization process in England and other European Countries.
- Urban pull and rural push: People might be pushed out from rural areas due to various reasons like lack of employment opportunities, low levels of income, lack of facilities such as education and health care, unfavorable social and political conditions etc.

(3× 02 = 06 marks)

(iv) Examine three favorable impacts of urbanization.

- Urban areas are the centers of economic activities such as industry, Commerce and trade, transport, education, health Care Facilities, arts and culture, Science and Technology. These centers act as catalysts or drivers of development into other areas of the country.
- Urbanization is closely related to economic and social development transformation resulted in increased population mobility, decrease in human ferity and increased life expectance.
- The process of elimination of poverty starts from urban centers in developing countries.
- Hardly any country in the world has achieved development without urbanization. They are the catalysts of development.
- Economics transformation from low productive agriculture to high productive industry and service is associated with urbanization.

- Migration into urban areas for earring income helps developing rural areas. It reduces the pressure and unrest exerted by unemployment in rural areas.
- They are the Centers of new knowledge and knowledge production.
- They are the markets for agricultural and industrial production in the country.

 $(3 \times 02 = 06 \text{ marks})$

6. (i) What is meant by population ageing?

- Population ageing means the increase in the percentage of population aged 60 years and over in a country's population.
- In other words, the gradual increase in the median age of the population of a country is also known as population ageing.

(02 marks)

(ii) Discuss two major factors responsible for population ageing.

- Increase in life expectancy: due to the improvement of health facilities, nutrition level, education level, happiness and government policies.
- Decrease in fertility level: due to increase in education level of women, employment, use of family planning, increased age at marriage and government policies.

$(2 \times 02 = 04 \text{ marks})$

(iii) Examine with examples three impact of population ageing on the economy of a country

- Increase in elderly population will increase expenditure on elderly care.
- Increase of social expenditure of the government
- Increase responsibility of the government to provide means of livelihood for aged people
- Continued contraction of the labor force
- Reeducation in savings that retards investment. Aged people are mainly consumers rather than produces so that savings are less.
- Relatives decline in new inventions and decrease in productivity levels.

$$(2 \times 3 = 06 \text{ marks})$$

- Retain them in labor force by increasing the retirement age.
- Provide conductive environment for aged people in order to improve social environment to relieve them from mental isolation.
- Encourage family support for ageing parents.
- Provide institution high care for the elderly.
- Provide concessions in transport, entertainment, medical services etc.
- Government as this will be a long lasting demographic reality.

 $(4 \times 02 = 08 \text{ marks})$

7. (i) What is meant by manufacturing industries?

- Transformation of a raw material into a finished product is known manufacturing industry.
- A value addition is made by mixing one or more raw materials.
- Any industry that makes products from raw materials by use of labour or machinery.

(02 marks)

(ii) Describe briefly with three factors how transport affects the location of manufacturing industries.

- Transport is needed to procure raw material and energy resources could and send the finished products to the market.
- Transportation plays an important role in the location of industries.
- Industries are located at the places where energy resources could be easily obtained and the production cot is least.
- Technology has reduced the time taken for transformation and there by facilitating the exchange of finished products with any country of the world.
- Industries are being located where air, naval and land transportation facilities are available sufficiently. Ex. Tokyo in Japan, Chicago is USA, London in UK
- The Opening of panama and Suez Canals greatly helped industries to develop.

- Air transport helped largely online marketing and promoted manufacturing industries.
- Railways and highway transport have contributed the location of industries largely in Asian and Latin American Countries.
- Expansion of industries beyond boundaries with the help of land transport. Ex. Nike shoe production in China.

$(3 \times 02 = 06 \text{ marks})$

(iii) Explain in brief three salient features of traditional handicraft industries in Sri Lanka.

- From the distant past, the traditional handicraft industry has been of importance in the economy of Sri Lanka.
- These industries have distributed in rural areas as well as in special villages.
- These industries utilize technologies transferring from generation to generation.
- This sector has recorded a growth rate of 2.5 percent in 2014.
- Geographical distribution: Beeralu in Magalle, masks in Ambalangoda, lacquer ware in Kandy, Rattan base craft in Wewaldeniya, Brass ware in Pilimathalawa, clay and ceramic in Kowulara .
- These productions earn foreign exchange.
- The State, through various ministries and department, has taken steps for the development of these industries.
- A large number of jobs have emerged in association with these industries (approximately 200,000 people)
- Since the product of these industries attracts tourists there is a tendency to develop the tourism industry.
- These industries use local raw materials in large quantities.
- Due to the emergence of specialized markets and creation of employment opportunities, it has contributed to regional development also.
- Scarcity of raw materials and moving out of new generation from the industry are some recent issues.
- Due to the lack of technology, low productivity has prompted low participation of businesspersons.

(iv) Examine three contributions of manufacturing industries to the economic development of Sri Lanka.

- The industrial sector contributes to the economy of Sri Lanka through different fields.
 - Gross domestic product (19% in 1978, 15% in 2016) DCS.
 - Employment
 - Foreign exchange earning
 - Utilization of local resources
 - Growth in infrastructure facilities
 - Regional development
 - The contribution of the industrial sector to the grass domestic product is 32.3 percent in 2014
- Main sectors of GDP 2020 Agriculture 7.3 Industries 28.4 Services 58.3 Taxes less Subsidies 6.0 Total 100.0
- The share of the industrial sector of the total employment of Sri Lanka is 6.5 percent in 2014.
- The industrial sector provides 74.2 percent of the foreign exchange earnings of the country, also in 2014.
- Cement, Steel, Ceramics, fuel product, paper, leather, tires, textiles, sugar, ligour, gem products salt, clay products.
- Development of infrastructure facilities such as railways, highways, electricity, telephone services and transportation in association with industrial plants and industrial cities, industrial estates and free trade Zones.
- Contribution to regional development through decentralization of industries.

(3 x 02 = 06 marks)

8. (i) State four sectors in globalization

- Economic globalization
- Cultural globalization
- Political globalization
- Technological globalization
- Social globalization
- Environmental globalization

 $(4 \text{ x} \frac{1}{2} = 02 \text{ marks})$

(ii) Explain two drivers of globalization with three features of each drivers Drivers of globalization

- Information and communication technology
- Multinational corporation
- Human mobility
- Transportation

Information and communication technology

- Radio, television, Computers, telephones, satellites, Other electronic communication equipment are significant in this process.
- The rapid development which has been realized by the information and communication technology has affected globalization tremendously.
- In cultural and social sectors, it has been possible to exchange views, skills and attitudes of each other and improve their conditions.
- With the emergence of satellite technology, fiber optics cables, wireless networks, and mobile phones it has been possible for the people to be aware of any incident occurring in the world within a very short period of time.
 - It has been possible to process the information at a great speed and store a large amount of information in a very small space.

Multinational Corporations

- The large companies who are having businesses at least in one country outside them home country are known as multinational corporations. The head offices and factories of these companies are establishment in various countries and their coordination is done by the main office located in the home country.
- These companies invest money in order to spread their businesses in other countries. It is called foreign direct Investment (FDI)
- The low cost production in developing countries, The Opening of the economies by these countries in order to expand foreign investment, relaxation of tax policies, relaxation of labor laws, expansion of infrastructure facilities etc. have increased the investments by multinational corporation in them.
- The leading companies of the world either by spreading their own businesses in the countries of the world over or investing to establish businesses in other countries contribute to globalization.

Human mobility

- The regional or international migration of the people is called human mobility. Human mobility takes place due to various factors such as employment, education, pleasure, business activities and religious purposes.
- In a globalization world, Countries are open to a large extent. especially due to the information and communication technology it has become easy to acquire knowledge and understanding about the world.
- Due to human mobility, the social and spatial gaps between countries have reduced.
- It has opened the space for people to migrate for educational, employment, pleasure and business purposes.
- Educational opportunities have widened. Opportunities are created for exchanging entrepreneurs. Opportunities for exchange of technology are created.

Transportation

- Contribution of the transportation is necessary for all countries to work under globalization
- To maintain the exchange of goods and services among all countries can be implemented with transportation
- The development of transportation can be identified under several categories " These are air transport, marine transport, railway transport, pipe transport and road transport
- The globalization is very strong in the counties where the development of transportation of high
- The development of urbanization within countries depends on the development of transportation. As such, the contribution of urbanization for the globalization also depends on the development of transportation.

(3 x 1)x 2 = 06 marks)

(iii) Describe three advantages and three disadvantages of globalization.

(03 + 3 = 06 marks)

Advantages of globalization

- It can acquire knowledge an enterprise for countries where they are not available.
- It can create opportunities for less developed countries to enter world market.
- It can encourage inflow of capital, technology and human capital possibilities for expanding import and export trade.
- It provides opportunities for entrepreneur of the less developed countries to become stakeholders of the international production networks.
- It acquires education and exchange technological knowhow.

Disadvantage of globalization

- Increase in income disparities between industrialized countries and industrially less developed countries and also within the less developed countries as well.
- The protecting policies of the developed countries controlling opportunities available for developing countries to access the export market.

- The measures followed by developing countries in competition with other developing countries with a view to attracting foreign capital investments create environmental problems.
- In practice, the globalization process operates from developed countries to developed countries to developing countries only.
- Gradual disappearance of cultural identity and cultural uniqueness of many countries and the spread of a global culture based on westernization led by the united states of American.

$(3 \times 01) \times 2 = 06 \text{ marks})$

(iv) Discuss three ways of how the current COVID - 19 pandemic has affected the globalization process. ations

• Economic effect

Job losses,

foreign income loses,

imports and exports reduced,

economic recession may happen,

tourism reduced GDP per capital fallen,

trade stowed,

air travel reduced.

• Social effect

Stay at home order enforced,

one-meter distance was advised,

wear a mask,

use of sanitizer.

stay away from friends and relatives,

mentally stressful entertainment and sports closed,

social life badly affected,

life expectancy decreased.

Social unrest in some developed countries.

• Political effect

politicians and leaders become unpopular decisions were unpopular and challenged, political power of the countries diminished, government regulations and controls are unpopular, international relations are also weakened.

Technological effect

work from home facilitated by technology, telecommunication services expanded, it consultancy expanded, online learning and meetings increased, social media strengthen, online shopping and e-banking increased.

• Environmental effect

Air pollution has decreased, carbon emissions fallen, water pollution decreased, disposal of marks and gloves create problems.

(3. Department