

கிடை ம தில்கலி அவர்னி | முழுப் பதிப்புரிமையுடையது | All Rights Reserved

Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පෙනු (උපස් පෙළ) විභාගය, 2021(2022)
කළුවීප පොතුත් තුරාතුරුප පත්‍රිය (ශ්‍යාරු තුරුප පරිශ්‍යා, 2021(2022))
General Certificate of Education (Adv. Level) Examination, 2021(2022)

ଭାରତୀୟ ଭୂର୍ବାଚାର	I
ପ୍ରାଚୀନ ଭୂର୍ବାଚାର	I
Geography	I

22 E I

ஒரே நூற்று
மூன்று மணித்தியாலம்
Three hours

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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
Part I	1 - 40	
Part II	1	
	2	
Part III	3	
	4	
	5	
	6	
Total		

	Signature	Code Number
1 st Examiner		
2 nd Examiner		
Additional Chief Examiner		
EMF		
Chief Examiner		

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 (.....)

3. Which of following options shows a cultural feature and a physical feature respectively in a 1:50 000 topographic map of Sri Lanka?
 (1) Escarpment and sand dune (2) Paddy land and settlement
 (3) Irrigation canal and river (4) Relief and slope
 (5) Roads and administrative boundaries. (.....)

4. What is the most suitable graphical method to depict age composition of the COVID-19 infections in Sri Lanka on a given 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 distribution lies between,
 (1) the upper quartile and the lower quartile
 (2) the median and the lower quartile
 (3) the median and the upper quartile
 (4) the maximum value and the minimum value
 (5) the mean and the minimum value (.....)

6. An example for spatial data used in a Geographic Information System is,
 (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 shows three examples for continuous data?
 (1) Height, time and temperature
 (2) Weight, distance and number of students
 (3) Time, precipitation and number of tanks
 (4) Temperature, evaporation and number of tourists
 (5) Height, number of tanks and number of children in a family (.....)

8. What is the correct option that shows three sources of secondary data?
 (1) Aerial photographs, interviews and maps
 (2) Satellite images, questionnaires and observations
 (3) Interviews, topographic maps and surveys
 (4) Interviews, the internet and measurements
 (5) Aerial photographs, the internet and maps (.....)

9. Which answer shows an example for an input device of Geographic Information System?
 (1) Monitor (2) Computer
 (3) Printer (4) Scanner
 (5) Plotter (.....)

10. What is the option that contains two drainage features shown in a 1:50 000 Topographic map?
 (1) Braided river and symmetrical slopes.
 (2) Meander and tributary.
 (3) Radial drainage and spur.
 (4) Water fall and steep slope.
 (5) Marsh and valley. (.....)

11. The equipment used to measure the atmospheric humidity is,
 (1) Anemometer. (2) Thermometer.
 (3) Hygrometer. (4) Rain gauge.
 (5) Barometer. (.....)

12. What is the parent rock of gneiss?
 (1) Shale (2) Granite (3) Sand stone (4) Limestone (5) Schist (.....)

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33. The focus of the Green Revolution was on
 (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.
 (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
 (2) brassware and masks
 (3) wood carving and clay products
 (4) batik products and Masks
 (5) lacquer ware and coir products (.....)

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.
 (3) development, structure and functioning of human society.
 (4) inter-relationships between human society and environment.
 (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. (.....)

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?
 (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 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.
 (2) Ekala, Ratmalana and Hambantota.
 (3) Meegoda, Thambuttegama and Keppetipola.
 (4) Dambulla, Koggala and Biyagama.
 (5) Marandagahamula, Nuwara Eliya and Pallekele. (.....)

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Department of Examinations, Sri Lanka

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General Certificate of Education (Adv. Level) Examination, 2021(2022)

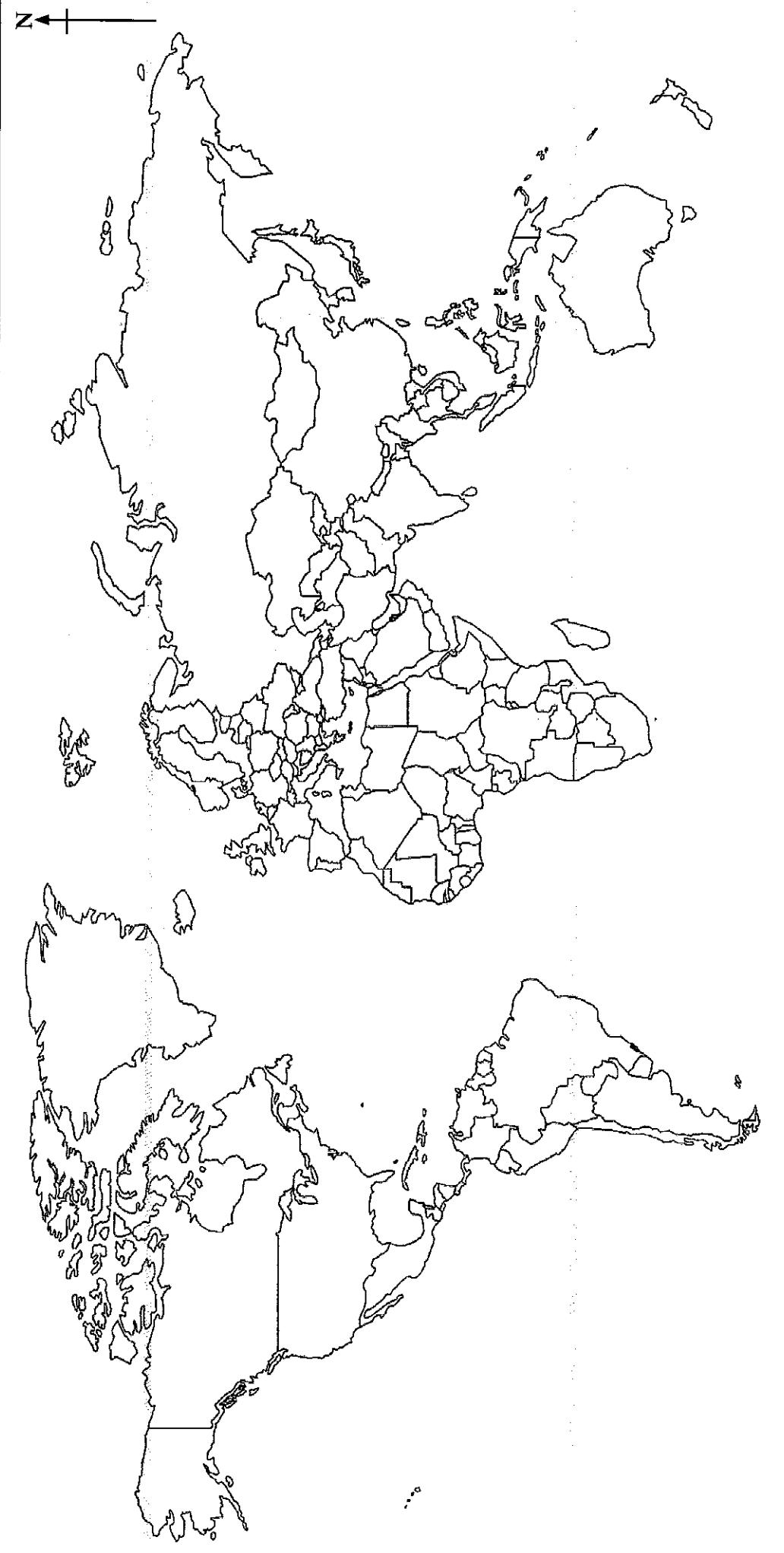
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Geography

උපන අංකය
විශාල ත්‍රිත්ව
Question No. 2

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ක්‍රි. ගැ. මේල්
Index No.

1419

22 STE I
22 STE II



අධ්‍යාපන ලොං සභාකිත පැන (සකස් පෙළ) විනාගය, 2021(2022) කළම්පීප පොතුන් තාරාතුප පත්‍රි (ශ්‍රේ තුප ප්‍රේ) කොළඹ, 2021(2022) General Certificate of Education (Adv. Level) Examination, 2021(2022)

SCALE 1 : 50,000

ଭୂଗୋଳ ଶିଦ୍ଧାତ
ପ୍ରକୃତିଶାସନ
Geography I

22 E I

Instructions:

- * *In part II both questions should be answered.*
- * *Part III consists of four questions and answers should be provided only for two selected questions.*
- * *A part of 1:50 000 topographic map, a map of the world, graph papers and drawing paper will be provided.*

Part III

1. You are provided with a part of the 1:50 000 topographic map of Bibile, published by the Survey Department of Sri Lanka. Answer the following questions based on the map.

N.B.

- * You should clearly state the relevant **question number** and number of its **subsection** in the answer script.
- * **Answers should not be written on the topographic map.**
- * Do not attach the provided topographic map to your answer script.

(i) Name the physical feature marked by the line **A** - **B**. (01 mark)

(ii) Name the administrative boundary in quadrilateral **C** and the settlement pattern in quadrilateral **D**. (02 marks)

(iii) Name the **four** landforms shown by the lines **E** - **F**, **G** - **H**, **J** - **K**, and **L** - **M**. (02 marks)

(iv) State **four** service providing institutions located within quadrilateral **N**. (02 marks)

(v) Redraw the features in quadrilateral **P** at 1:25 000 scale (ask for a drawing paper). (03 marks)

(vi) Explain **two** physical factors that determine the distribution of paddy cultivation in the map area. (04 marks)

(vii) Explain in brief, **four** factors limiting the human activities in the northwestern quarter of the map. (06 marks)

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

- (i) Drakensberg mountains
- (ii) Tierra del Fuego island
- (iii) Gobi desert
- (iv) Lake Michigan
- (v) Strait of Gibraltar
- (vi) Hudson Bay
- (vii) Downs grassland
- (viii) Iceland
- (ix) Longest river in the World
- (x) The city where the head

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(iv) The only bridge on the road where the bridge is located (10 marks)

Part III

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)
Colombo	3 281
Gampaha	3 445
Matara	3 573
Kegalle	3 731
Kandy	4 099
Batticaloa	4 582
Badulla	4 973
Matale	5 030
Vavuniya	5 520
Hambantota	5 986

Source- Department of Census and Statistics, Sri Lanka, 2020

(i) Based on the data given in **Table 1** calculate (a) the mean (b) the deviation of given districts and (c) the mean deviation (04 marks)

(ii) Draw a deviation graph using the data you have calculated in 3(i) above (ask for a graph paper for this exercise). (05 marks)

(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. (06 marks)

4. (i) Describe in brief, how the National Grid System of the 1:50 000 topographic map of Sri Lanka has been decided. (03 marks)

(ii) Explain what is meant by spatial data and non-spatial data in a Geographic Information System. (04 marks)

(iii) Compare **two** differences between the aerial photographs and satellite images as remote sensing techniques. (04 marks)

(iv) Explain how useful is a map for a tourist arriving in Sri Lanka with **four** examples. (04 marks)

5. (i) State **two** uses of interviews as a method of data collection. (02 marks)

(ii) Name **three** techniques in practical Geography used in the presentation of information. (03 marks)

(iii) Selecting **two** of the techniques you have mentioned in 5(ii) above, describe **two** uses of each. (04 marks)

(iv) Discuss in brief, the importance of practical Geographical techniques in disaster management with **three** examples. (06 marks)

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	1 889	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	1 158	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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22 E II

ஏட இங்கி
முன்று மணித்தியாலம்
Three hours

அன்றர் கியலீலி காலை	- மேநித்து 10 பி
மேலதிக வாசிப்பு நேரம்	- 10 நிமிடங்கள்
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.

Instructions:

* Selecting at least two questions from each part, answer five questions only.

Part I - Physical Geography

1. (i) What is meant by a system? (02 marks)
(ii) Briefly describe **three** characteristics of the biosphere. (06 marks)
(iii) Explain in brief the significance of the biosphere with **three** factors. (06 marks)
(iv) Examine **three** human activities that adversely affect the biosphere. (06 marks)

2. (i) Name **two** ways of erosion associated with ocean waves. (02 marks)
(ii) Briefly describe **three** erosional landforms created by ocean waves in coastal areas with suitable diagrams. (06 marks)
(iii) Depict the following **two** depositional landforms in the coastal areas with diagrams and explain their physical features.
 (a) Tombolo (06 marks)
 (b) Sand Spit (06 marks)
(iv) Explain briefly **three** measures which have been taken by the Coast Conservation Department of Sri Lanka to protect the coastal environment. (06 marks)

3. (i) What is meant by over use of water resources? (02 marks)
(ii) Briefly discuss **three** fields where water resources are over used. (06 marks)
(iii) Explain briefly **three** measures that can be taken to prevent over use of water resources. (06 marks)
(iv) Discuss **three** measures that could be adopted to prevent the pollution of water resources in Sri Lanka. (06 marks)

4. (i) What is meant by 'Greenhouse Effect'? (02 marks)
(ii) Explain **three** anthropogenic factors responsible for global climate change? (06 marks)
(iii) Discuss with **three** examples, effects of the global climate change. (06 marks)
(iv) Examine in brief, **three** measures that have been taken by the Government of Sri Lanka to mitigate the impact of climate change. (06 marks)

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 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 process. (06 marks)