

සියලු ම හිමිකම් ඇවිරිණි / முழுப் பதிப்புரிமையுடையது / All Rights Reserved

නව නිර්දේශය / புதிய பாடத்திட்டம் / New Syllabus

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව  
 இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்  
 Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2020  
 கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2020  
 General Certificate of Education (Adv. Level) Examination, 2020

භූගෝල විද්‍යාව I  
 புவியியல் I  
 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 of Rathnapura, an outline map of the world and graph papers will be provided.

## Part II

1. You are provided with a part of the 1:50,000 topographic map of Rathnapura, published by the Survey Department of Sri Lanka. The contours are shown at 20 metre interval. 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 map.
- \* Do not attach the provided map to your answer script.

- (i) Name a Divisional Secretariat Division shown in the map. (01 marks)
  - (ii) Name the two drainage features shown within squares A and B. (02 marks)
  - (iii) Name the two types of valleys marked by lines C-D and E - F. (02 marks)
  - (iv) Name the four landform features marked by lines G-H, J-K, L-M and N-O respectively. (02 marks)
  - (v) Name six agricultural land use types found within the quadrilateral P. (03 marks)
  - (vi) Name the salient drainage pattern found in the map area and explain with two facts the relationship between the drainage pattern and the relief. (04 marks)
  - (vii) Comparatively describe the agricultural, settlements and road network in the Eastern and Western parts of the map area. (06 marks)
2. Mark and name the following in the world map provided using conventional symbols and colours.
- (i) Volga river
  - (ii) Lake Baikal
  - (iii) New York city
  - (iv) Pinatubo volcano
  - (v) Equator
  - (vi) Pampas grassland
  - (vii) Great Dividing range
  - (viii) Gulf stream
  - (ix) The South-East Asian country with a 100% of urban population
  - (x) The Chinese city reported as the origin of COVID-19

(10 marks)

[see page seven]

## Part III

3. (i) What is meant by secondary data? (02 marks)
- (ii) Briefly describe **three** uses of the Internet as a source of secondary data. (03 marks)
- (iii) Briefly describe **two** problems encountered by a researcher when using secondary data. (04 marks)
- (iv) Explain **three** differences between maps and satellite images as sources of secondary data. (06 marks)
4. (i) What is modern cartography? (02 marks)
- (ii) State **three** reasons for the wide use of modern cartography. (03 marks)
- (iii) Describe in brief main features of **two** remote sensing platforms. (04 marks)
- (iv) Explain with sketches, the difference between Vector and Raster data formats used in Geographic Information System. (06 marks)
5. The sectoral composition of the Gross Domestic Product (GDP) in selected Asian countries in the year 2017 is shown in **Table 1**.

**Table 1:** The Gross Domestic Product (GDP) in selected Asian countries by sector - 2017 (US\$ million)

Country	Agriculture	Industry	Services
China	1 833 590	9 400 050	11 976 360
India	1 458 996	2 179 020	5 826 510
Japan	59 874	1 638 343	3 739 341
South Korea	4 477	799 755	1 186 405
Thailand	101 352	447 432	687 216

Source: <http://data.worldbank.org>

- (i) Draw a multiple bar graph to represent the data given in **Table 1**. (Ask for a separate graph paper for this drawing.) (08 marks)
- (ii) Using the graph you have drawn, state **two** salient features of the Gross Domestic Product of the Asian countries selected. (02 marks)
- (iii) Name another graphical method suitable for representing the data given in **Table 1** and describe it with the help of sketches. (05 marks)

[see page eight

6. The district-wise distribution of dengue patients in Sri Lanka in 2019 is shown in **Table 2**.

**Table 2:** Distribution of Dengue patients by district in Sri Lanka - 2019

No.	District	No. of patients
1	Colombo	20 718
2	Gampaha	16 573
3	Kalutara	8 395
4	Galle	7 378
5	Matara	4 054
6	Hambantota	2 049
7	Ratnapura	4 086
8	Kegalle	2 716
9	Kurunegala	3 218
10	Puttalam	2 257
11	Kandy	8 940
12	Matale	2 445
13	Nuwara Eliya	438
14	Badulla	1 922
15	Monaragala	333
16	Jaffna	8 261
17	Kilinochchi	396
18	Vavuniya	872
19	Mullaitivu	268
20	Mannar	271
21	Anuradhapura	1 164
22	Polonnaruwa	561
23	Trincomalee	2 969
24	Batticaloa	2 848
25	Ampara	338
	<b>Total</b>	<b>103 470</b>

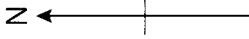
Source: Epidemiology Unit, Ministry of Health, Sri Lanka, 2020

- (i) State **two** salient features of the district-wise distribution of dengue patients in Sri Lanka that can be observed from **Table 2**. (02 marks)
- (ii) Using above data prepare a table with class intervals, tally marks, frequencies, cumulative frequencies and percentage cumulative frequencies.  
(Consider the class interval as 4200; starting point of the first class interval should be zero.) (05 marks)
- (iii) Construct a percentage cumulative frequency curve using the table you have prepared in above (ii). (Ask for a graph paper for this exercise.) (05 marks)
- (iv) State **two** uses of the percentage cumulative frequency curve. (03 marks)

\* \* \*

Department of Examinations - Sri Lanka





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අධ්‍යයන පොදු සහතික පල (ලසක් පෙළ) විෂය, 2020  
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் புரட்சை, 2020  
General Certificate of Education (Adv. Level) Examination, 2020

**22 I**

ඉගෙනීමේ විද්‍යාව I  
புலியியல் I  
Geography I

ප්‍රකාශන අංකය: 0845  
විකුණු කළ දිනය: 2020  
විකුණු කළ ස්ථානය: කොළඹ

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නව නිර්දේශ / புதிய பாடத்திட்டம் / New Syllabus

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව

இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்

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Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2020  
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2020  
General Certificate of Education (Adv. Level) Examination, 2020

නව  
Geography II

22 E II

භූගෝල විද්‍යාව II  
புவியியல் II  
Geography II

අමතර කියවීමේ කාලය - මිනිත්තු 10 යි  
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

- Name **four** major areas of the world where glaciers are found. (02 marks)
  - Describe in brief, **three** ways of erosion taken place in the valley glacier regions. (06 marks)
  - Briefly explain with suitable diagrams **three** landforms created by the erosive action in the continental glacier regions. (06 marks)
  - Briefly explain **three** landforms with suitable diagrams created by deposition in continental glacier regions. (06 marks)
- Name **four** major types of Koppen's world climatic classification with relevant letters. (02 marks)
  - Selecting one type of the Koppen's world climatic classification you have learned describe **three** of its salient features. (06 marks)
  - Describe **three** main characteristics in the geographical distribution pattern of rainfall in Sri Lanka during the South-West Monsoon season. (06 marks)
  - Explain with **three** examples the impact of the South-West monsoon rains on the vegetation cover in the Wet zone of Sri Lanka. (06 marks)
- What is meant by the terms 'Natural Hazard' and 'Disaster'? (02 marks)
  - Describe **three** salient features of any **one** of the following natural hazards in the world. (06 marks)
    - floods
    - landslides
    - earthquakes
  - Explain **three** impacts of the natural hazard you have selected above in (ii) on human environment. (06 marks)
  - Explain **three** steps taken by the Disaster Management Centre in Sri Lanka under the Preparedness stage of the Disaster Management Cycle. (06 marks)
- Name **four** factors that would help in the identification of differences among Biomes. (02 marks)
  - Briefly describe **three** major characteristics in the temperate zone forest biomes or Mediterranean woodlands biomes. (06 marks)
  - Briefly explain **three** environmental problems arisen due to artificial wetlands in Sri Lanka. (06 marks)
  - Explain **three** measures taken by the government of Sri Lanka to minimize the environmental problems associated with artificial wetlands. (06 marks)

[see page two

### Part II - Human Geography

5. In **Table 1**, data on world Crude Death Rate for the period from 1950-55 to 2015-20 are provided.

**Table 1:** World Crude Death Rate

Region	1950 -55	1970 -75	1990 -95	2010 -15	2015 -20
More Developed countries	10.6	9.5	10.0	9.9	10.2
Less Developed countries	23.1	12.9	8.9	7.2	7.0
Africa	26.7	18.7	14.3	9.3	8.2
Asia	22.6	12.0	8.0	6.9	6.9
Europe	11.2	10.2	11.2	10.9	11.0
Latin America and the Caribbean	15.5	9.5	6.5	6.0	6.3
North America	9.5	9.2	8.6	8.1	8.6
Oceania	13.3	9.5	7.6	6.9	6.8

Source : United Nations, Population Division, World Population Prospects, 2019

- (i) What is meant by 'Crude Death Rate'? (02 marks)
- (ii) State **four** salient features of the World Crude Death Rates that can be identified from the data given in **Table 1**. (04 marks)
- (iii) Selecting **two** of the salient features that you have mentioned in above (ii), briefly discuss **two** factors responsible for each feature. (06 marks)
- (iv) Explain in brief **four** factors responsible for the decline in the crude death rate in Sri Lanka since Independence. (08 marks)
6. (i) Name **two** sectors of modern technology to which the methods applied in agriculture belong in order to increase food production. (02 marks)
- (ii) Selecting one of the sectors mentioned in above (i), explain with **two** examples, how the new technology has contributed to increase food production. (06 marks)
- (iii) Examine **three** adverse effects of new technology applied in agriculture. (06 marks)
- (iv) Discuss in brief **three** measures that can be adopted to minimize the adverse effects you have mentioned in above (iii). (06 marks)
7. (i) What is an extraction industry? (02 marks)
- (ii) Describe in brief **three** salient features of the geographical distribution pattern of iron ore deposits in the world. (06 marks)
- (iii) Describe **three** trends in the world iron ore trade. (06 marks)
- (iv) Discuss **three** problems encountered by the extraction industry in the world. (06 marks)
8. (i) What is meant by the term 'tourist'? (02 marks)
- (ii) Describe in brief **three** types of tourism. (06 marks)
- (iii) Describe **three** economic benefits of the tourism industry in Sri Lanka. (06 marks)
- (iv) Examine **three** measures that have been taken by the government of Sri Lanka to improve the tourism industry. (06 marks)

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