

நில திரட்டேங்கை/புதிய பாடத்துதிட்டம்/New Syllabus

அதிகார போட்டி சுக்கிலிக் பதி (உயிச் பலை) விழுக்கை, 2020  
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தரு)ப் பரிசீலனை, 2020  
General Certificate of Education (Adv. Level) Examination, 2020

## ଭୂଗୋଳ ବିଦ୍ୟାର ପ୍ରବିଧିଯଳ **Geography**

22 E I

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**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 III

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)

**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)

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)

NEW

අධ්‍යාපන පොදු සභාතික පත්‍ර (සිංහ තෙලු) විභාගය, 2022  
කල්මේරු පොතුන් තුරාතුප පත්තිරු (ඉයුර තුප) ප්‍රිතිසේ, 2022  
General Certificate of Education (Adv. Level) Examination, 2022

ଭାରତୀୟ ବିଜ୍ଞାନ  
ପ୍ରବିଧିଯଳ  
Geography

22

0845



SCALE 1:50,000

ஒட்டுப்பிடி எதிர்க்கொண்டு தெரு 20  
நிலாபுரம் சென்று விடும் வளம் 20 ரூபாய்

## නව නිර්දේශය/ප්‍රතිඵල් පාටත්තිෂ්ටම/New Syllabus

අධ්‍යයන පොදු සහතික පත්‍ර (ලුසස් පෙළ) විභාගය, 2020  
කළුවිප පොතුත් තරාතුරුප පත්තිර (ඉ-යෝ තරුප් පරිශ්‍යාස, 2020  
General Certificate of Education (Adv. Level) Examination, 2020

ଭୂରେଣ୍ଟିଲ	ବିଦ୍ୟାବ	II
ପୁଣିଯିଯଳ		II
<b>Geography</b>		II

22 E II

ஒரே குறையி  
மூன்று மணித்தியாலம்  
*Three hours*

අමතර තියවීම් කාලය	- මෙනින්තු 10 දි
මෙළතික බාසිප්පු තුරුම්	- 10 නිශ්චිත ක්ෂේ
<b>Additional Reading Time</b>	<b>10 minutes</b>

**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**

### 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)