B	AL/2016/22/E-I கீகஓ © விற்கு අபிர்கி (முழுப் பதிப்புரிமையுடையது /All Rights Reserved]										
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ලංකා විතාශ දෙ නේකනවා පැරි. නේකනවා පැරි. ලංකා විතාශ දෙ ගැන්කෙවර පැරි. න තුලග්ල වි	ndanedage d goan t நார் நிலைக்களம் இ minimitiens, Sri Lauka De நாற்காசின்று d goan t நார் நிலைக்களம் இ <b>ரப்களை</b> <b>கல்லிப் G</b> <b>General</b>	one depotace overland in the part partment of <b>図のがある</b> one depotace one d	A Dens Security (Property of the Control of the C	තිය, 2016 අමය ජෝ භාජ, 2016 ඉ mination, August පැය ම	නිස්තු සහාලි 2016 දකපි					
Ш	ப്ഖിധിധல் Geograpl	I		22 E I	இரண்() <b>Two h</b>	ெ மணித்தியாலம் purs					
0	Index No.:										
	* Pai	s paper consists <b>t I</b> consists of <b>3</b> elf.	<b>0</b> multiple choic	re questions. Answers to <b>Pa</b>							
	itself.  ** Answer scripts of both Part I and Part II, should be attached together and handed over.  For Examiner's use only.										
ſ		Question No.	Marks	valumer's use only.	Signature	Code Number					
-	Part I	1 - 30		1 <sup>st</sup> Examiner's							
ł		1	<u>.</u>	2 <sup>nd</sup> Examiner's							
	Part II	2		Additional Chief Examiner's							
		3		Chief Examiner's							
	Total			Arithmetic Checker's							
1.	What is a (1) Wa (3) Bra (5) Spr	nswer that gives tershed, cliff, sw ided river, mean ing, estuary, sad	three drainage ramp. der, spring. dle gap.	Part I on and write its number of features identifiable in 1:  (2) Meander, escarpmer  (4) Pot hole, ox-bow la	50 000 topographi at, trellis drainage ake, escarpment.	c maps of Sri Lanka?					
2.	<ol> <li>Select the statement that describes a frequency polygon most correctly.</li> <li>(1) Presents total value of each class of data.</li> <li>(2) Drawn connecting mid-points of each bar of a histogram.</li> <li>(3) Presents cumulative values of each class of data.</li> <li>(4) Shows deviation of each data from the median.</li> <li>(5) Organizes a data series in an ascending order.</li> </ol>										
3.	(1) cor	appropriate cart nposite bar grap ck diagram.		of presenting direction ar (2) choropleth map. (5) dual bar graph.	d volume of mig	ration in a country is 3) flow chart.					
4.	(1) Do		artographic meth	nods could be used to pres (2) Line graph (5) Flow chart	ent continuous da	ata? 3) Bar graph ()					
5.	(1) No (3) Spa	the two main ty minal and Rank atial and Aspatia adsat images and	data 1 data	can be accommodated in a (2) Continuous and Dis (4) Global Positioning	screte data						

	(1 (2 (3) (4)	at is meant by Remote Sensing?  A method of collecting data releva  A method of data downloading thre  A data collection method through  A data collection method without to  A data processing method introduce	ough Globa ceing	the Internet Positioning Sy to the object	vstem		()
7	(1) (2) (3) (4)	ch of the following is an example for Total population in the city of Colo Path of Highway from Kottawa to West coastal line of Sri Lanka Distribution of housing units in a very Paddy land boundaries of a DS Div	ombo Galle /illage	;			()
8	(1)	middle value of an ordered array of mode. range.	(2)	ers is the mean. central tenden	cy.	(3) median	ı. ()
9	(1) (3)	number of accidents in the city of C discrete data. qualitative data. rank data.	(2)	oo during 2015 continuous dat nominal data.			()
10	(1) (2) (3) (4)	th one of the following is qualitative Height of a student Liking or disliking of a product Monthly income of a group of a go Yield from a paddy plot Profit of a company					()
11	(1) (2) (3) (4)	h one of the following answers correctled Crag and tail and Cirque Esker and Kame Crag and tail and Arete Roche moutonnee and Cirque Arete and Roche moutonnee	ly giv	es two deposition	onal landforms crea	ated by continen	tal glaciers?
12.	Accor	rding to Koppen's climatic classification BSk (2) Cfa	on, w	hat is the symb	ool that indicates (4) Dfa	the Mediterranea	, ,
13.	(1) (2) (3) (4)	i Lanka, the two major soil types con reddish brown earth and red yellow red yellow latasols and red yellow preddish brown earth and non-calcic lated yellow podzolic and non-calcic lated the reddish brown earth and red yellow	podzo podzol brown brown	olic. lic. earth. earth.	ne are		()
14.	(3)	one of the following answers correct Gypsum and shale Shale and limestone Limestone and limonite	<b>(2)</b>	ves the two see Dolomite and I Gypsum and Ii	imestone	nade by chemica	al reaction?
15.	(1) (3)	erihelion and aphelion take place resp January and July. January and October. July and October.	<b>(2)</b>	ely in the mont July and Janua October and Ja	ry.		()
16.	A land (1)	form in a rocky shore associated wit sea stack. (2) inselberg.		ve action is sand spits.	(4) fjords.	(5) beach.	()
17.	(1)	one of the following answers correct Dykes, sills, fissure Dykes, sills, laccolith Crater, sills, laccolith	<b>(2)</b>	ves three landfo Sills, laccolith, Laccolith, phace	orms created by in	*	

18.	Which one of the following answers state three topographical features seen in the youth stage of a basin?	a river
	<ol> <li>Narrow valley, river capture, waterfalls</li> <li>River capture, levees, meander</li> <li>Waterfalls, wide valley, ox-bow lakes</li> </ol>	
	<ul><li>(4) Flood plains, river capture, delta</li><li>(5) Alluvial fans, waterfall, levees</li><li>(6) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2</li></ul>	)
19.	Which answer correctly gives three locations of mineral sands deposits in Sri Lanka?  (1) Eppawala, Kaikawala, Seruwila  (2) Kaikawela, Polkotuwa, Eppawala  (3) Pulmoddai, Eppawala, Ratnapura  (4) Pulmoddai, Kaikawala, Polkotuwa  (5) Galle, Polkotuwa, Batticaloa  (6)	)
20.	What is the answer that shows three locations where wet patana grasslands are found in Sri Lanka?  (1) Hortan plains, Ambewela, Bopaththalawa.  (2) Ambewela, Bopaththalawa, Haggala.  (3) Hortan plains, Knuckles, Haggala.  (4) Bopaththalawa, Samanala kanda, Yala.  (5) Haggala, Ambewela, Udawalawa.	)
21.	The total of population under age 14 and above age 65 divided by the population aged between 15-defined as	-64 is
	<ol> <li>child dependency ratio.</li> <li>aged dependency ratio.</li> <li>dependency ratio.</li> <li>child adult ratio.</li> </ol>	)
22.	What was first pre-requisite for the start of urbanization in European countries?  (1) Establishment of a local government system  (2) Establishment of colonies	
	<ul><li>(3) Agricultural surplus production in the rural sector</li><li>(4) Privatization of land ownership in the country</li></ul>	)
23.	The seasonal migration of animal livestock from lowland pastures to mountain regions is known as  (1) intensive subsistence agriculture. (2) mixed cropping and livestock farming. (3) crop rotation. (4) transhumance. (5) shifting cultivation.	)
24.	The focus of the Green Revolution in Asia was on  (1) improving crop yields in commercial agriculture.  (2) reducing starvation among people.  (3) inventing new forms of food to add variety to human diet.  (4) saving underdeveloped land from urbanization.  (5) encouraging the use of fertilizers less damaging to the environment.	)
25.	Early civilizations of the World developed mainly in  (1) areas with abundant mineral resources that helped industrialization.  (2) areas with climatic diversity where a mix of crops could be cultivated.  (3) mountain areas where inhabitants could live safely.  (4) 'Savanna' areas where hunting could be practised.  (5) river valleys where agriculture could be practised.	)
26.	Which one of the following answers correctly shows the three factors that determine the growth of popular	ılation
	in a country?  (1) Births, deaths and life expectancy (2) Births, deaths and out-migration (3) Births, deaths and migration (4) Births, deaths and in-migration (5) Births, natural increase and out-migration (6)	)
27.	"Silicon Valley' is an agglomeration of (1) silica sand associated industries. (3) tourism related industries. (4) high-tech industries. (5) motor vehicle production industries.	)

A	L/2016/22/E-1		- 4 -					
28.	'Nochchiyagama' and 'Aralaganwila' respectively in the systems of  (1) H and C.  (3) C and L.  (5) H and L.	(2)	of the H and B C and G	l <b>.</b>	Development	Programme	are	situated ()
	What is the most populated country in (1) Kampuchea (3) Singapore (5) Laos	(2) \( (4) \) [	Vietnam Indonesia					()
30.	Which one of the following answers coin descending order?  (1) U.S.A., Russia, China, India  (3) China, India, U.S.A., Russia  (5) Russia, U.S.A., China, India	(2) 1	I <b>ndia</b> , U.	argest whea S.A., Russi ussia, India	a, China	our countries	in th	ne world
		* *						

கேனு இதுகை අපවරක්/முழுப் பதிப்புரிமையுடையது/All Rights Reserved]

இ வை இறை சூற்றேல் இ வேற இறை දෙறுற்று இடிக்கு இருந்து இரு இருந்து இ

#### Part II

### **Instructions:**

Geography

- \* Answer two questions only, selecting question No. 1 and one question from questions 2 and 3.
- \* A part of 1:50 000 topographic map of Bibile and a graph paper are provided.
- 1. You are provided with a part of the 1:50 000 topographic map of Bibile, published by the Survey Department of Sri Lanka. The contours are shown at 100 feet interval. Answer the following questions based on the map.

#### N.B.

- \* Answers should not be written on the map.
- \* You should clearly state the relevant question number and its subsection in the answer script.
- \* Do not attach the provided map to your answer script.
- (i) Name the two landforms found in quadrilaterals A and B.

(01 mark)

(ii) Name the two settlement types shown in quadrilaterals C and D.

 $(01 \ mark)$ 

(iii) Name the four land use types found in places marked by E, F, G and H.

(02 marks)

(iv) Discuss briefly main features of the road network in the map area.

(04 marks)

(v) Explain how the topography has inhibited the distribution of human settlements in the southwest quadrant of the map area.

(06 marks)

(vi) Describe briefly the distribution of public services in the map area.

(06 marks)

2. (i) Define Geographical Information System (GIS).

(02 marks)

- (ii) State **two** similarities between conventional mapping systems and Geographical Information (04 marks)
- (iii) Briefly describe four advantages of the Geographical Information Systems (GIS) compared to conventional mapping systems.
- (iv) Briefly discuss three applications of modern cartography.

(06 marks)

3. Table 1 gives data on annual rainfall for Nuwara Eliya from 1991 to 2005.

Table 1 - Annual Rainfall of Nuwara-Eliya, 1991 - 2005

Year	Rainfall (mm)				
1991	1836.6				
1992	1842.4				
1993	2097.8				
1994	2303.4				
1995	2082.5				
1996	2176.5				
1997	2028.0				
1998	1784.3				
1999	1893.6				
2000	1824.3				
2001	1681.0				
2002	1517.4				
2003	1373.8				
2004	1741.1				
2005	1347.1				

mean 1835.3 mm

Source: Meteorology Department, Sri Lanka

Using the data in the table 1 answer the following questions.

(i) Calculate the median of the above data distribution.

(02 marks)

(ii) Calculate deviations from the mean of the data given in the table 1.

(04 marks)

(iii) Draw a deviation graph using the data calculated in (ii) above.

(10 marks)

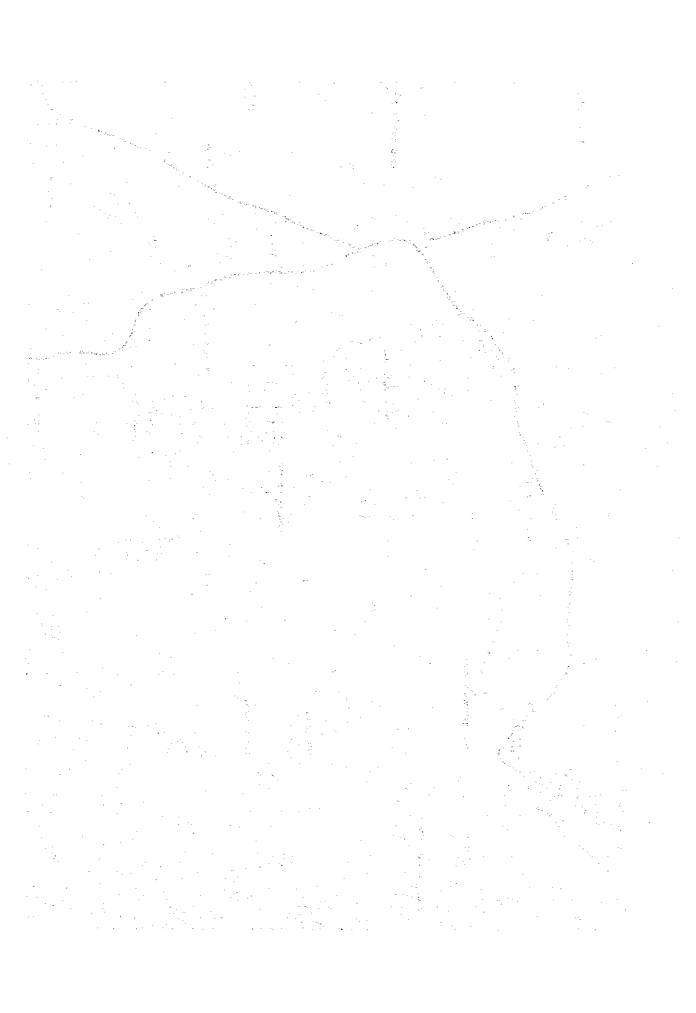
(iv) Discuss the rainfall pattern of Nuwara-Eliya for the period 1991-2005 that can be identified (04 marks) from the graph drawn.

483

**©** 

SCALE 1:50 000

සමෝව්ව රේධා අන්තරය අඩි 100 சமவුயர்க்கோடு இடைவெளி 100 அழ Contour Interval 100 feet



മയ്യ ම නිම්කම් ඇව්රිනි / முழுப் பதிப்புநிமையுடையது /All Rights Reserved]

ලී ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව මූහෝනන්ට පාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව මූහෝනන්ට පාර්තමේන්තුව මූහෝනන්ට පාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව Department of Examinations, Sri Larka Department of **இலාබාගය S**r **Lujik නානු ජාතාන්ගයේ සහස්ධාර**, Sri Larka Department of Examinations, Sri Larka ලී ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා මිභාග දෙපාර්තමේන්තුව ලී ලංකා විභාග දෙපාර්තමේන්තුව මූහණන්ව ප්රේකපති නිතානයේක්වා මූහණනයේ ප්රේකපති කියන්ත්වේ මූඩන්ත්වේ මූඩන්ත්වේ මූඩන්ත්වේ මූහණනයට ප්රේකපති නිතානයේක්ව

අධායන පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2016 අගෝස්තු கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2016 ஓகஸ்ற் General Certificate of Education (Adv. Level) Examination, August 2016

භූගෝල විදපාව II புவியியல் II Geography II



உரு வுறைப் மூன்று மணித்தியாலம் **Three hours** 

## **Instructions:**

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

# Part I - Physical Geography

1. (i) Explain the difference between weather and climate.

(02 marks)

(ii) Describe briefly, three factors controlling climate.

(06 *marks*)

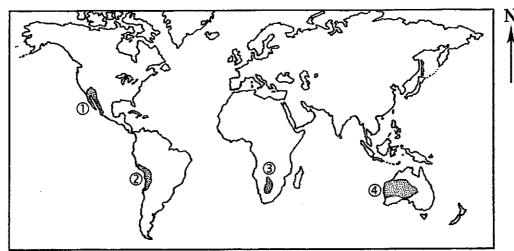
(iii) Describe three salient features of the 'Tropical Rainy Climates' (Af) according to Koppen's classification.

(06 marks)

(iv) Describe seasonal pattern of annual rainfall in Sri Lanka.

(06 *marks*)

2. (i) The world map given below shows areas of deserts marked ① to ④. State correctly the names of the four deserts. (02 marks)



(ii) Explain the three landform formation processes in desert areas.

(06 marks)

(iii) Describe with diagrams three landforms created by water in desert areas.

(06 marks)

- (iv) With the aid of diagrams, describe three landforms created by wind erosion in desert areas. (06 marks)
- 3. (i) What is meant by a 'natural disaster'?

(02 marks)

(ii) Explain three human activities that aggravate the intensity of natural disasters.

(06 *marks*)

(iii) Describe briefly four main stages of the disaster management cycle.

(06 marks)

(iv) Explain four measures that have been taken by the governments of Sri Lanka to mitigate the impact of natural disasters.

(06 marks)

4. (i) State what is meant by a 'wetland'.

(02 marks)

(ii) Describe briefly three environmental benefits provided by a wetland.

(06 marks)

(iii) Discuss three major threats faced by wetlands in Sri Lanka.

(06 marks)

(iv) Describe three measures that have been taken by the governments of Sri Lanka to conserve wetlands.

(06 marks) [see page two

# Part II - Human Geography

5. (i) State four factors that affect the distribution of population.

(02 marks)

(ii) Describe briefly four salient features of the World population distribution that can be identified from the data given in **Table 1**.

(06 marks)

World Population Distribution(%) 1900 - 2050

Area Year	1900	1950	2000	2050
Developing World	69.9	71.0	82.4	86.7
Africa	8.1	8.8	13.4	23.5
Asia	57.3	55.6	60.5	55.2
Latin America and the Caribbean	4.5	6.6	8.5	8.0
Developed World	30.1	29.0	17.6	13.3
North America	5.0	6.8	5.2	5.0
Europe	24.7	21.7	11.9	7.7
Oceania	0.4	0.5	0.5	0.6
World	100.0	100.0	100.0	100.0

Source: United Nations World Population Report 2010 (Revised)

(iii) Discuss briefly **three** factors responsible for the salient features in world population distribution that you have identified in above (ii).

(06 marks)

(iv) Discuss briefly four problems associated with the nature of world population distribution.

(06 marks)

6. (i) Name four salient features of the intensive subsistence agriculture.

(02 *marks*)

(ii) Describe three changes that have taken place in intensive subsistence agriculture in recent times.

(06 marks)

(iii) Briefly explain three factors affecting the marketing process of the world agricultural production.

(06 marks)

(iv) Discuss in brief three recent trends in the agricultural land use in Sri Lanka.

(06 *marks*)

7. (i) Name four major mineral resources available in Sri Lanka.

(02 marks)

(ii) Describe briefly the distribution of mineral resources you have named in (i) above.

(04 marks)

(iii) Discuss, giving **four** examples, how mineral resources contribute to the economic development of Sri Lanka.

(06 marks)

(iv) Briefly explain four adverse environmental effects of mineral extraction industry in Sri Lanka.

(08 marks)

8. (i) State what is meant by 'globalization'.

(02 marks)

(ii) Describe briefly with **four** examples how the 'Internet' contributes to the acceleration of the globalization process.

(06 marks)

(iii) Briefly discuss the impact of the Information Technology on the agricultural development of Sri Lanka.

(06 marks)

(iv) Discuss in brief, **three** problems emerged in the developing countries in relation to Information Technology.

(06 marks)