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கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2018 ஓகஸ்ற General Certificate of Education (Adv. Level) Examination, August 2018

භූගෝල විදාහාව புவியியல் Ι Geography

22	E	(I)
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29.08.2018 / 1300 - 1500

පැය දෙකයි இரண்டு மணித்தியாலம் Two hours

Instructions:

- * This paper consists of two parts.
- * Part I consists of 30 multiple choice questions. Answers to Part I should be written on this paper itself.
- * Answer scripts of both Part I and Part II, should be attached together and handed over.

For Examiner's use only.

	Question No.	Marks
Part I	1 - 30	
	1	
Part II	2	
	3	
Total		

	Signature	Code Number
Ist Examiner		
2 nd Examiner		
Additional Chief Examiner		
Chief Examiner		
Arithmetic Checker		

Part I

- Select the option that contains the correct answer for each question and write its number on the dotted line.
- 1. Two physical features that can be shown in a topographic map are
 - (1) river meander and escarpment. (2) rainfall and paddy land.
 - (3) main roads and slopes.
- (4) scrubs and ruins.
- (5) swamps and railways.
- 2. Two geographical features that can be represented by broken lines in a topographic map are
 - (1) stream and minor road
- (2) footpath and local authority boundary.
- (3) built-up area and watershed
- (4) tunnel and cart track.
- (5) ferry and irrigation canal.

(.....)

(=:::::)

- 3. Three sources of secondary data are
 - (1) satellite image, news papers and census reports.
 - (2) diaries, aerial photographs and observations.
 - (3) television programmes, weather reports and questionnaire surveys.
 - (4) annual reports, labour force surveys and interviews.
 - (5) soil map, weather reports and group discussions.

(,,,,,,)

- 4. Which one of the following items is most suitable to be represented by a flow map?
 - (1) Population density
- (2) Passenger transport
- (3) Rainfall variation
- (4) Paddy yield
- (5) Location of towns

(....)

	The vector data model in Geographic Information System (GIS) is based on (1) pixels. (2) lines. (3) po (4) polygons. (5) coordinates.	ints. ()
6.	What are the two main types of data in a Geographic Information System? (1) Vector and Raster (2) Spatial and Attributes (3) Continuous and Discrete (4) Locational and Discrete (5) Attributes and Raster	()
7.	The main spatial data capturing methods in Geographic Information System are (1) screen digitising, Global Positioning System and satellite data. (2) Google data, Global Positioning System and secondary data. (3) Global Positioning System, secondary data and satellite data. (4) screen digitising, secondary data and Google data. (5) satellite data, Google data and secondary data.	()
8.	Which of the following is an example for spatial data? (1) Total population in a city (2) Time of a particular event (3) Contour lines (4) Quality of water of agro-wells in a region (5) Daily rainfall and temperature data in a city	()
9.	What are the two main branches of statistics? (1) Descriptive statistics and Inferential statistics (2) Central tendency and Dispersion (3) Sample and Population (4) Histogram and Frequency polygon (5) Range and Inter Quartile Range	()
10.	Which of the following options represents qualitative data? (1) Height of a group of students (2) Public opinions on private education (3) Results of a competition (4) Spot heights (5) Mobile phone numbers	()
11.	What is the option that shows three metamorphic rocks? (1) Quartzite, Marble, Schist (2) Quartzite, Schist, Basalt (3) Marble, Schist, Basalt (4) Olivine, Marble, Granite (5) Granite, Quartzite, Gneiss	()
12.	Three topographical features found in a river valley are (1) floodplain, delta and ox-bow lakes. (2) alluvial fans, delta and pot holes. (3) levees, ox-bow lakes and yardang. (4) braided stream, floodplain and inselberg. (5) meanders, ox-bow lakes and bahadas.	()
13.	Three topographical landforms created by waves are (1) headland, sea stacks and cliff. (2) sea stacks, kames and levee. (3) cliff, pothole and delta. (4) arches, cliff and wadis. (5) cliff, headland and sheet erosion.	()
14.	What is the salient feature of Low country wet-zone in Sri Lanka? (1) Annual rainfall is more than 2000 mm (2) Average annual temperature is 20 °C (3) Receives rainfall from cyclones (4) Cloudless clear sky	
0	(5) Long dry season	()
-		[see page three

1		of the major characteristics of tropical rainforests in Sri Lanka is	
ı		closely grown tall trees.	
		leaves at the ground level being small.	
ı		not having several vegetation strata.	
		low floral diversity.	
	(5)	May-September being the drought season.	()
1	6. Whic	ch of the following options correctly indicates the vertical change in temperature	in the
l		sphere?	
l	(1)	Increases (2) Decreases	
ı	(3)	No change (4) Become zero	
	(5)	Fluctuates	()
1	7 Whic	th of the following answers shows the correct order of organizational levels in the bio	enhero'
Ĭ.		Species, community, population, ecosystems, biomes	spilete:
Н		Species, population, community, ecosystems, biomes	
		Species, population, community, biomes, ecosystems	
		Species, community, ecosystems, biomes, population	
			()
			()
13		e major processes of river erosion are	
		corrosion, saltation, hydraulic action.	
		corrosion, transportation, hydraulic action.	
		corrosion, abrasion, hydraulic action.	
		corrosion, sliding, hydraulic action.	
n	(5)	abrasion, saltation, hydraulic action.	()
19	9. The	Elnino phenomenon begins in the	
		Eastern part of the Pacific Ocean.	
		Western part of the Pacific Ocean.	
М		Eastern part of the Indian Ocean.	
ľ		Western part of the Indian Ocean.	
	(5)		()
24	The A	Contain force to accord by the	
41		Coriolis force is caused by the	
		inclination of the earth.	
		rotation of the earth.	
		oscillation of the Inter Tropical Convergence Zone. La-nina phenomena	
	(5)	·	()
	(3)	changes in temperature in land and ocean surface.	()
21	l. The t	wo most important factors that determine the location of handicraft industries in Sri Lank	a are
	(1)	land and raw-materials. (2) labour and raw-materials.	
		energy and capital. (4) capital and transportation.	
	(5)	capital and market.	()
22	Which	h of the following options shows three salient feature of an expansive population pyr	omido
		Convex shape, narrow bottom, expanded top	aliiid?
		Dome shape, expanded bottom, narrow top	
		Concave shape, expanded bottom, narrow top	
		Lean shape, narrow bottom, narrow top	
			()
	(-)		()

r=					
23	(1) (2) (3) (4)	tourist locations in the east coas Nilaveli, Pasikuda and Casuarina Nilaveli, Pasikuda and Arugam E Casuarina beach, Arugam Bay an Dambakolapatuna, Casuarina beac Nilaveli, Pasikuda and Dambakol	beach. Bay. Ind Nilaveli. Ind Nilaveli. Ind Nilaveli.		()
24	(1) (2) (3) (4)	ent trend in urban settlements in Sri high rate of urban growth. high urban growth in district cap de-industrialization in Colombo s development of Colombo as a m less migration to Greater Colomb	oitals. uburbs. etropolis.		()
25.	(1) (2) (3) (4)	speak different languages, have c speak same language, have variou speak different languages, have v	ups are non habits and living in a small a common habits and living in a sm us habits and living in a small ar arious habits and living in differe common habits and living in differe	all area. ea. ont areas.	()
26.	in ter (1) (3)	n of the following answers corre ms of land area cultivated? Tea, Rubber, Paddy, Coconut Paddy, Tea, Coconut, Rubber Paddy, Coconut, Tea, Rubber	ctly shows, in descending order, (2) Coconut, Tea, Paddy, Rubber, (4) Tea, Paddy, Rubber, Coconu		()
27.	(1)	050, the most urbanized continent Africa. North America.	in the world will be (2) Asia. (5) Latin America.	(3) Europe.	()
28.	(1) (2) (3) (4)	general fertility rate is the number per 100 females in the age group per 1000 females in the age group	p 15 - 50 in a given year. up 15 - 49 in a given year. p 14 - 50 in a given year. up 18 - 49 in a given year.		()
29.	settler (1) (2) (3) (4)	n of the following options correctly nent systems 'H' and 'G' respection Thambuttegama and Dehiattakandion Girandurukotte and Bakamuna Galnewa and Bakamuna Eppawala and Aralanganwila Nochchiyagama and Dehiattakandion of the system of the sy	iya	t belong to the	Mahavali ()
30.	(1)	esent the leading buyer of Graphi Canada. United Kingdom.	te from Sri Lanka is (2) India. (5) Australia.	(3) Japan.	()

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క్రెడ్డాగ మా _{రులు} Spartn	විශාල කියල්
අධ්රයය සහිඛ්රා General	පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2018 අගෝස්තු ඩොනුන් නුரානුරා පුනුම් (ෙපාර් නුද)ට පුරි කෙළ, 2018 ඉහණලි Certificate of Education (Adv. Level) Examination, August 2018
තුරුණල විදුසාව I පුම්ස්ජාණ I Geography I	22EI

Part II

Instructions:

- * 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 Hanguranketa and a graph paper are provided
- 1. You are provided with a part of the 1: 50,000 topographic map of Hanguranketa, 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.

- * 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** drainage features shown in quadrilaterals **A** and **B** in the map. (02 marks)
- (ii) Name the **two** topographic features shown in quadrilaterals C and D. (02 marks)
- (iii) Discuss briefly, the salient features of topography and drainage in the map area. (04 marks)
- (iv) Name four public services available in the area within the quadrilateral E. (04 marks)
- (v) Comment on the distribution pattern of human settlements in the map area (04 marks)
- (vi) Discuss in brief the geographical factors that affect the land use pattern in the map area. (04 marks)
- 2. (i) Define 'Global Positioning System' (GPS).

- (02 marks)
- (ii) Briefly explain the main segments of a Global Positioning System.
- (04 marks)
- (iii) Describe three factors which can affect the accuracy of Global Positioning System data. (06 marks)
- (iv) Explain four advantages of Global Positioning System based on their application. (08 marks)

3. Table 1 shows the average yield of paddy (kg per hectare) by districts in Sri Lanka for Maha Season in 2015. Answer the following questions based on the table.

Table 1

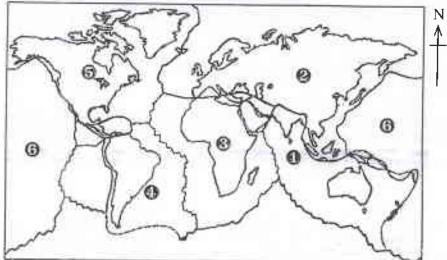
Serial No.	District	2015 Maha	Serial No.	District	2015 Maha
1	Colombo	3,431	14	Monaragala	3,993
2	Gampaha	3,594	15	Jaffna	3,096
3	Kalutara	3,644	16	Killinochchi	3.689
4	Galle	3.738	17	Vavuniya	4.816
5	Matara	4,266	18	Mullativu	3,330
6	Ratnapura	3,924	19	Mannar	5,489
7	Kegalle	3,857	20	Anuradhapura	4.802
8	Kurunegala	3.609	21	Polonnaruwa	5,306
9	Puttalam	4,028	22	Trincomalee	4,473
10	Kandy	4,203	23	Batticaloa	2.686
11	Matale	4.602	24	Ampara	4.078
12	Nuwara Eliya	3,717	25	Hambantota	6,134
13	Badulla	4,761	1		

Source: Department of Census and Statistics Colombo Sri Lanka, 2015

- (i) Prepare a frequency distribution table using above data. Limit the number of classes to five (5). (06 marks)
- (ii) Calculate the mean paddy yield in Maha season, 2015 using the frequency distribution table prepared in (i) above. (05 marks)
- (iii) Construct a histogram and frequency polygon using the frequency distribution prepared in (i) above. (05 marks)
- (iv) Based on the exercises done in (ii) and (iii) above, briefly describe **two** major characteristics of the average paddy yields in the Maha season of 2015 in the districts of Sri Lanka. (04 marks)

AL/2018/22/E-II සියලු ම හිමිකම් අවර්ණි/(ආලුப් பதிப்புநிமைபுடையது/All Rights Reserved) කර අතර කොට්රසේවයට දී ලංකා වනග ලෙසාව කර ලෙසාව වනාග දෙදසාව ත්වේන්තුව වනග සොටතුරුවන්තුව දී ලංකා වනාල සොටතුරුවන්තු අවශ්‍ය දෙන්න අවශ්‍ය ලින්න Navast 1 ද u Lanka Department el la lanka Department el la lanka Department el Examinations දී ලින්න දෙනවනවේ මු ලෙනා විනාශ විද්යා දේ වියුත්ත වේ වියුත්ත වියුත්ත වේ වියුත්ත වේ වියුත්ත වේ වියුත්ත වේ වියුත්ත වේ වියුත්ත වියුත්ත වේ වියුත්ත වියුත්ත වේ වියුත්ත වියුත්ත වේ වියුත්ත ව අධ්නයන පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2018 අගෝන්තු கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2018 ஒக்ஸ்ற் General Certificate of Education (Adv. Level) Examination, August 2018 භුගෝල ව්දාපාව புவியிய Π 30.08.2018 / 1300 - 1610 Geography II 010 තනයි අමතර කියවීම් කාලය - මිනින්තු 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 and decide on the questions that you give priority in answering. Instructions: * Selecting at least two questions from each part, answer five questions only Part I - Physical Geography 1. (i) Name four major factors that affect the climate of Sri Lanka. (02 marks) (ii) Select any two from the factors you have mentioned in (i) above and explain how (06 marks) they affect the climate of Sri Lanka. (iii) Describe three main characteristics of the climate in the low country wet zone of (06 marks) Sri Lanka: (iv) Discuss three physical processes that induce climate change. (06 marks) 2 (i) What is meant by landslide? (02 marks) (ii) Explain three natural factors affecting landslides. (06 marks) (iii) Explain three major impacts of landslides on the physical environment (06 marks) (iv) Explain three measures that have been taken by the government of Sri Lanka to minimize the damage caused by landslides. (06 marks) 3. (i) The world map given below shows six geo-tectonic plates numbered **1-6**.

Name the six geo-tectonic plates correctly. (03 marks)



(ii) Explain three processes taking place in the plate boundaries with suitable diagrams. (06 marks)

(iii) Name one landform type each associated with compressional and tensional forces and describe their formation process. (06 marks)

(iv) Explain two main disasters occurring on the earth surface due to plate movements+(05 marks)

[see page two

4. (i) Name the two main components of an ecosystem.

- (02 marks)
- (ii) Explain briefly three major types of natural ecosystems in Sri Lanka.
- (06 marks)
- (iii) Name four types of wildlife reserves in Sri Lanka and explain two major threats faced by them.
- (06 marks)
- (iv) Discuss three legal measures adopted by the government of Sri Lanka to minimize the threats faced by the wildlife reserves.

(06 marks)

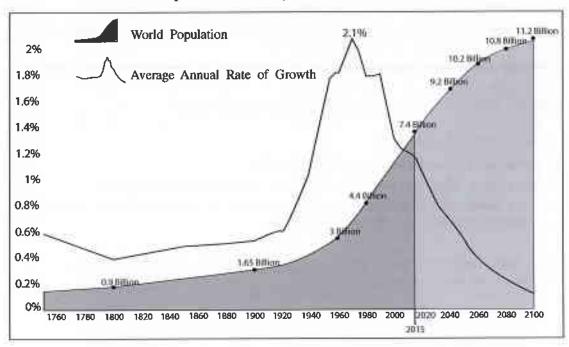
Part II - Human Geography

5. (i) Name the factors affecting population growth.

(02 marks)

(ii) Examine three factors that have been responsible for the rapid growth of population in the world that took place since the mid-1990s as shown in the Figure 1 below. (06 marks)

Figure 1
World Population Growth, 1750 – 2100

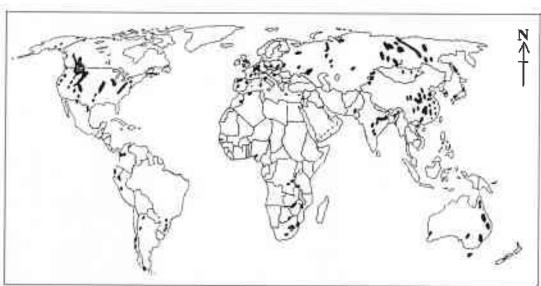


Source: United Nations World Population Prospects, 2017 Revision

- (iii) Discuss three factors that have been responsible for the decline in the average annual growth rate of world population since 1960s as shown in Figure I above. (06 marks)
- (iv) Explain three salient features in the growth of population in Sri Lanka since 1990 s. (06 marks)

Investments.

Figure 2 shows the distribution of coal reserves in the world. Figure 2 Distribution of coal reserves in the world



(i) Identify two salient features in the distribution of coal fields in the world as shown (02 marks) in figure 2. (ii) Explain three characteristics in the utilization of coal as a source of energy. (06 marks) (iii) Examine the potentials of three alternative energy sources as a solution to the future energy crisis. (06 marks) (iv) Describe three issues associated with the utilization of coal as an energy source in Sri (06 marks) Lanka. (i) What is an urban settlement? (02 marks) (ii) Describe three changing patterns of world urbanization. (06 marks) (iii) Explain three socio-economic problems emerged due to the urbanization in developing countries. (06 marks) (iv) Examine three changes that have occurred in the urbanization in the Colombo Metropolitan (06 marks) Region in Sri Lanka. (i) Define 'Multinational Corporation'. (02 marks) (ii) Explain three benefits acquired by developing countries through the Multinational (06 marks) Corporations. (iii) Discuss three problems that have emerged due to the intervention of Multinational Corporations in developing countries.

(iv) Describe three measures that Sri Lanka could adopt to increase the Foreign Direct

(06 marks)

(06 marks)

