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22 | E | I

Second Term Test - Grade 12 - 2020

Index No.

Geography I

Three Hours

- This paper consists of three parts
- Part I consists of 40 Questions and write answers them in this paper
- Answer both questions in part II. Part III consists of four questions and write answers only for two questions.
- A part of metric map of Sri Lanka and a world map are provided.

Part - I

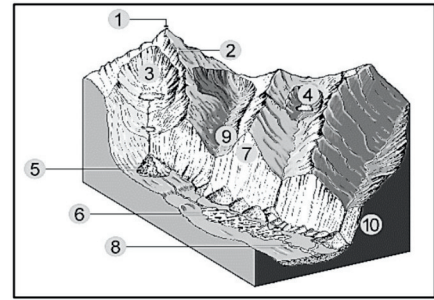
Write the correct number of correct choice in the brackets

- 01). Type of the map in which both physical and cultural features are shown in the same map is,
 - i. Land utilization map
 - ii. Topographical map
 - iii. Thematic map
 - iv. Isopleth map
 - v. Choropleth map(.....)
- 02). How many times do the satellites in GPS revolve around the earth on an allotted orbit a day at a speed around 11,000 Km per hour.
 - i. Once a day
 - ii. Thrice a day
 - iii. Five times a day
 - iv. Twice a day
 - v. Four times a day(.....)
- 03). The Location of 500,000 mN and 500,000 mE coordinate in national grid network in new topographic map of 1:50000 scale of Sri Lanka is,
 - i. Piduruthalagala
 - ii. Samanala Mountain
 - iii. Point Pedro
 - iv. Point Dondra
 - v. Kandawala(.....)
- 04). The answer that shows basic symbols respectively which are used to represent geographical features such as a river, cultivated land, a building in a Geographical Information system (GTS)
 - i. Polygon, Line, Point
 - ii. Polygon, Point, Line
 - iii. Line, Polygon, Polygon
 - iv. Point, Line, Polygon
 - v. Line, Polygon, Point(.....)
- 05). Capturing, Processing and analyzing of energy emitted or reflected by an object is done in,
 - i. Geographical Information System (GIS)
 - ii. Active Sensing
 - iii. Passive Sensing
 - iv. Remote Sensing
 - v. Global Positioning System (GPS)(.....)

12). What are the landforms shown no 1,2 and 3 in adjacent diagram that shows landforms associated with glaciers,

- i. Arete, pyramidal peaks, hanging valley
- ii. pyramidal peaks, Arete, tarn lake
- iii. Arete, pyramidal peaks, cirque
- iv. Pyramidal peaks, Arete, cirque
- v. Pyramidal Peaks, Cirque, Arete

(.....)



13). Most suitable soil groups for paddy cultivation which are seen in both wet and dry zones in Sri Lanka.

- i. reddish brown earth soil
- ii. reddish brown latasols
- iii. Alluvial soil
- iv. Grumusols soil
- v. Red yellow podzol soil

(.....)

14). Large percentage of fresh water (3%) on the earth exist as

- i. Ice and glaciers
- ii. river water
- iii. water vapour
- iv. in plant and human body
- v. Soil water

(.....)

15). The main physical factor that affect the physical features like colour and texture in soil

- i. Time
- ii. Climate
- iii. Parent rocks
- iv. relief
- v. water and drainage

(.....)

16). Landforms formed by the Epeirogenic movement (vertical movement) are

- i. Fault and fold mountain
- ii. Ocean basin and fold mountain
- iii. fold mountain and Intrusive volcanoes
- iv. Intrusive and extrusive volcanoes
- v. fault and mid oceanic ridges

17). Main factors that affect the volcanic activity,

- i. pressure
- ii. Temperature
- iii. fissures and joints
- iv. Time
- v. above all

(.....)

18). Select the correct answer that shows metamorphosed rock which formed by changing the original rock

Original rock

lime stone
granite
Sandstone

metamorphosed rock

- A. quartzite
- B. Shale
- C. gneiss
- D. Marble

i. A B C

ii. D C A

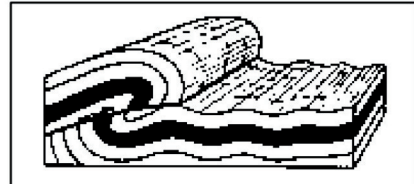
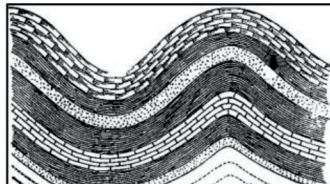
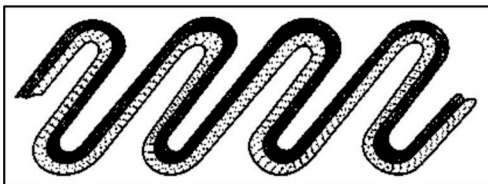
iii. D B A

iv. C A D

v. B C D

(.....)

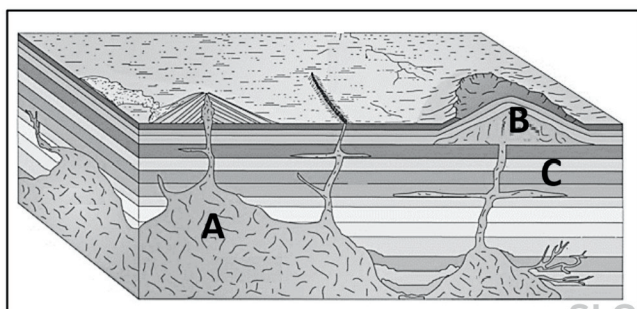
19). The answer that name correctly the landform shown in following diagrams.



- i. monoclinial fold, symmetrical fold, thrust fold
- ii. Isoclinal fold, Asymmetrical fold, thrust fold
- iii. Isoclinal fold, symmetrical fold, thrust fold
- iv. monoclinial fold, symmetrical fold, asymmetrical fold
- v. Isoclinal fold, monoclinial fold, thrust fold

(.....)

- 20). A - rock particles collide with each other and turn into small particles
 B - Sand and dust particles are carrying away from the ground
 C - removal of rocks creates large depressions on earth's surface
 Above process that takes place in desert area are known as
- Solution
 - abrasion
 - deposition
 - deflation
 - corrosion
- (.....)
- 21). To which geological period, the rocks more than 70 million years old found in Tabbowa, Andigama and pallama areas belong,
- Miocene period
 - Jurassic period
 - Pre Cambrian period
 - Quaternary period
 - Holocene period
- (.....)
- 22). Select the answer when World major volcanoes (Column I) is correctly matched with their located countries (Column II)
- | I. Volcano | II. Located country |
|--------------|-----------------------------|
| • Fujiyama | A. United States of America |
| • Hecla | B. Japan |
| • Krakatoa | C. Indonesia |
| • St. Helena | D. Italy |
| | E. Iceland |
- B, E, C, A
 - A, B, C, E
 - B, E, D, A
 - E, C, A, D
 - B, E, C, A
- (.....)
- 23). Select the answer that contain only landforms formed by tensional movement
- Symmetrical fold, asymmetrical fold, isoclinal fold
 - thrust fault, rift valley, normal fault
 - rift valley, horst, monoclinical fold.
 - normal fault, symmetrical fold, rift valley
 - Synclinalorium, normal fault, Step fault
- (.....)
- 24). of the plates by which the lithosphere consists according to the hypothesis of plate tectonics the answer that contain only continental plates is,
- Indo - Australian plate, Iran plate, Pacific plate
 - Eurasian plate, Indo - Australian Plate, South American plate
 - Nazca plate, Cocos plate, Pacific Plate
 - Cocos Plate, Pacific plate, Antarctic Plate
 - Pacific plate, Philippine plate, African Plate
- (.....)
- 25). Select the answer that shows intrusive volcanic land forms respectively which marked by the letters A, B, C, in the following diagram.



- Lopolith, Laccolith, Sill
 - Batholith, Laccolith, Phacolith
 - Batholith, Lopolith, Sill
 - Batholith, Lacolith, Dyke
 - Batholith, Laccolith, Sill
- (.....)

-

34). The name given commonly for the type of settlement built by the man Clustering around a tank, church, market or palaces.

- i. Linear settlement ii. Scattered settlement iii. Nucleated settlement
iv. dispersed settlement v. junction settlement (.....)

35). Which answer contain the letter that shows Nigeria, the country with highest world population growth rate,

- i. F ii. A iii. D iv. B v. C



36). Which answer contains respectively a South American country shown by "F" and South Asian country shown by "D" which belong to most populated countries of the world 2015.

- i. Mexico and Iran ii. Brazil and India iii. Bangladesh and Cuba
iv. Brazil and Pakistan v. Pakistan and Brazil (.....)

37). Which letter shows the Syria, a country of origin from which emigration occurs to European and African countries due to its internal conflict recently,

- i. E ii. B iii. A iv. D v. C (.....)

38). An Asian country where constrictive population pyramid which formed due to decreasing birth rate and increasing elderly population is seen.

- i. Indonesia ii. Phillippines iii. Japan iv. Maldives v. Thailand (.....)

39). According to the data published by the World Health Organization, the reason for the occurrence of women's death in the age group 15 - 44 more than due to cancer, malaria and road accidents.

- i. Violence ii. Pregnancy iii. Committing suicide
iv. abortion v. parturition (.....)

40). Factors affecting the dynamism in World population is given in following equation.

$$\text{Population} = \text{Birth} - \text{death} \pm \text{net migration}$$

here net migration is calculated,

- i. immigration - birth ii. emigration - immigration iii. immigration + emigration
iv. immigration - emigration v. death - emigration (.....)

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Second Term Test - Grade 12 - 2020

Geography I

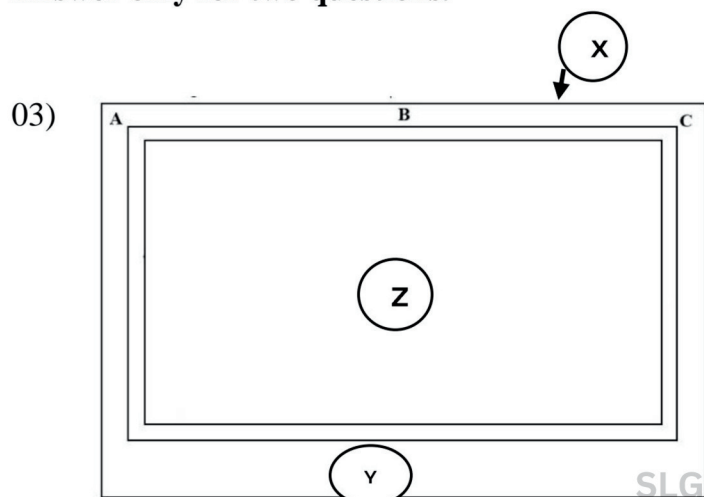
Part - II

- **Answer all the questions**

- 01) Answer the following questions based on the metric map of 1:50 000 scale provided Contour interval is 20 m.
- Name the feature shown by the line A - B in the map (1 marks)
 - To which direction does the slope of the map extend? (1 marks)
 - Name the type of vegetation shown by the letter "C" and the feature shown by the letter "D" (2 marks)
 - Name main commercial crop seen in the square "E" (1 marks)
 - Calculate the distance of main road x - y in kilometers. (2 marks)
 - Name six cultural features found in the square. "H" (3 marks)
 - Calculate the area of the real land represented by the map. (2 marks)
 - Comments on transportation system of the mapped area. (4 marks)
 - Describe the relationship between relief and land utilization. (4 marks)
- 02) Mark and name following things in the outline map of World supplied. Use standard colours and symbols. (10 marks)
- Andes mountain range
 - Zambezi river
 - Ukatan perninsular
 - Barents sea
 - Capentarian bay
 - Mongolia
 - Aleutian trench
 - Brundi state with lowest level of urbanization in Africa
 - World largest fresh water lake
 - The country which held a referendum to leave European Union

Part III

Answer only for two questions.



A model of 1:50 000 topographic map is given below.

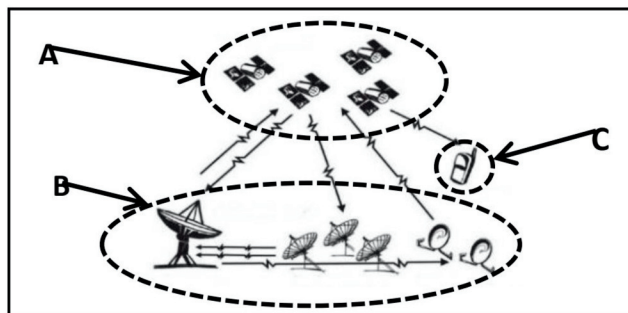
- i. Name the areas marked as X, Y, Z (3 marks)
- ii. Name information shown at the locations A, B, C in the area "X" (3 marks)
- iii. a. Write in centimeters the length and width of the area shown by Z in a map of 1:50 000 (2 marks)
- b. State in square kilometers the above area (2 marks)
- iv. Name 4 type of information shown in the area "Y" (4 marks)
- v. a. Name information shown in inner margin (3 marks)
- b. Name the place which was selected as the base point to prepare the National Grid system and describe how false origin has been located. (3 marks)

04). i. Define the term Global Positioning System (GPS) (2 marks)

ii. Name the segments of Global Positioning System shown in the following diagram as A, B, and C and explain them briefly (6 marks)

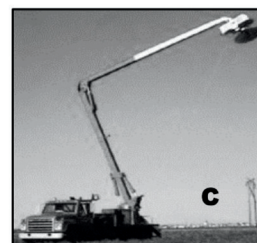
iii. Describe three factors that affect for the accuracy of data related to Global Positioning System (6 marks)

iv. Explain with reference to various fields 3 advantages of using of Global Positioning System (6 marks)



05). i. What is meant by Remote Sensing (2 marks)

ii. a). Name the platforms that the following sensing instruments which used to collect data in remote sensing belong? (3 marks)



b). Name two types of satellite which are identified according to the nature of their location and orbital path (3 marks)

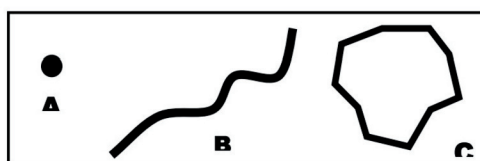
iii. Describe briefly aerial photographic technology that use in Remote sensing. (6 marks)

iv. Name four fields in which Remote Sensing Technology is used and describe with examples the usage of one field. (6 marks)

06). i. Define "Geographic Information System" (3 marks)

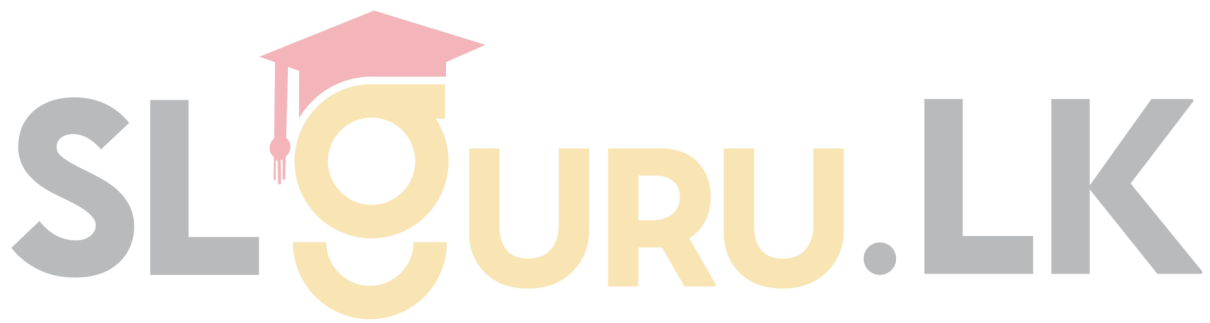
ii. Name two main types of data used in Geographic Information System and describe one of them. (5 marks)

iii. In a Geographic Information System, geographical features are represented by following symbols (topology) Name them and Write one example for each. (6 marks)



iv. Describe with diagram above topologies are represented by vector data model or Raster data Model (6 marks)

“The whole purpose of education is to turn mirrors into windows.” – Sydney J. Harris



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Provincial Department of Education - NWP

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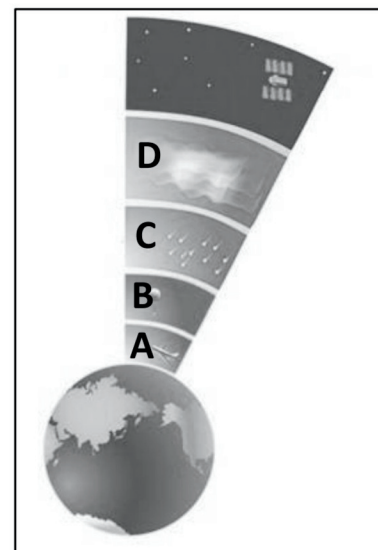
Geography II

- Selecting at least 2 questions from each parts write answers for 5 questions only.

Part - I physical geography

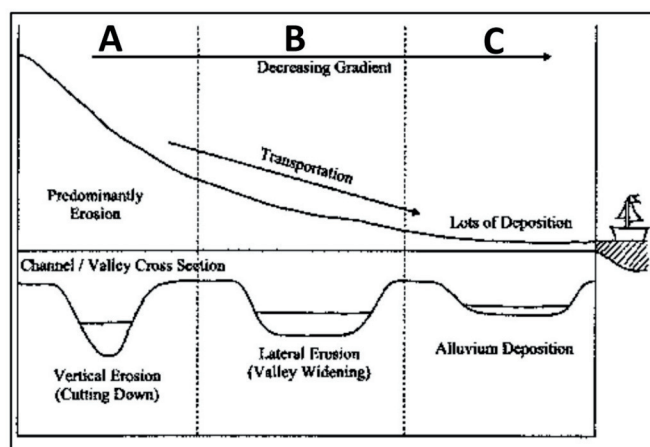
01). The transparent and odorless air cover that envelops the earth's surface owing to the gravitational power of the earth is known as atmosphere.

- In this diagram which shows stratification of atmosphere,
 - Write letters and name two layers in which temperature increase with altitude. (2 marks)
 - Name three layer with lowest temperature. (1 marks)
- Describe briefly three effect of atmospheric pollution (6 marks)
- Name 3 harmful effect of human activities done on earth crust and describe one of them (5 marks)
- Explain with reference to 3 facts how destruction of forest influence on the existence and processes of biosphere. (6 marks)



02). Forces that originate on the earth's surface are called exogenic forces.

- A long profile and a cross section of a river from the origin to the destination are shown in the diagram. Name the stages shown in the diagram, Name the stages shown by the letters A, B and C (3 marks)
- Explain briefly the processes in each stages of the river. (6 marks)
- Explain with diagrams the methods of transportation of the river load. (5 marks)
- Describe with diagrams three landforms formed by the deposition of river load. (6 marks)



03). The earth which is believed that it had its origin about 4600 million years ago, consists of several layers.

i. In this diagram that shows the structure of the earth's interior.

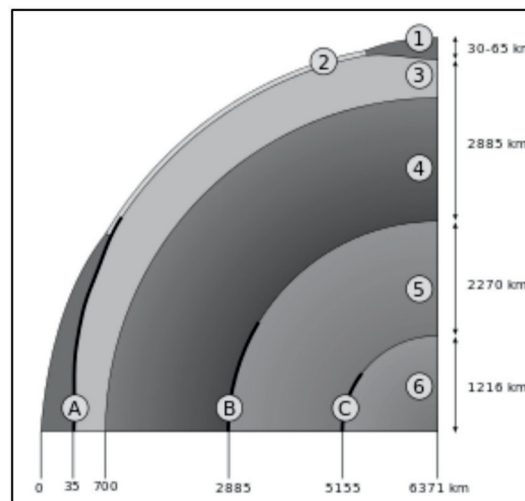
Name correctly

- a). the layers shown by the number ④ and ⑥
b). two discontinuities shown by the letters B and C

(4 marks)

ii. a). What is the common name given for the layers shown by ①, ② and ③ when they are taken together. (3 marks)

b). Describe three features of layers, shown by number ① and ② (3 marks)



iii. Fill in the blanks using information given in the brackets related to Sedimentary rock classification according to the origin. (6 marks)

Disintegrated sedimentary	A	pebbles, Boulder clay, Breccia
	A renaceous	B
Chemically deposited Sedimentary rocks.	C	Salt, Salt rocks
	gypsum	D
E	Carbonaceous	F

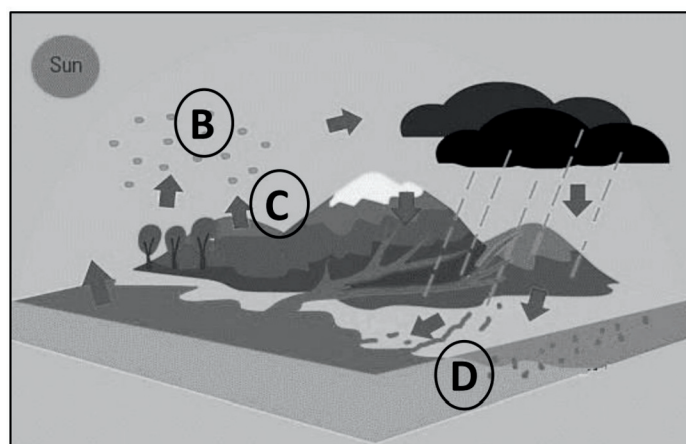
(Hematite, Gypsum, coal, chloride, clay, Rudaceous, organic sedimentary, sand stone.)

iv. a). Name 2 fuel minerals with one distribution areas seen in Sri Lanka. (2 marks)

b). Name 4 non - metal minerals found in Sri Lanka and explain economical value of one of them. (4 marks)

04). Water is needed to sustain life.

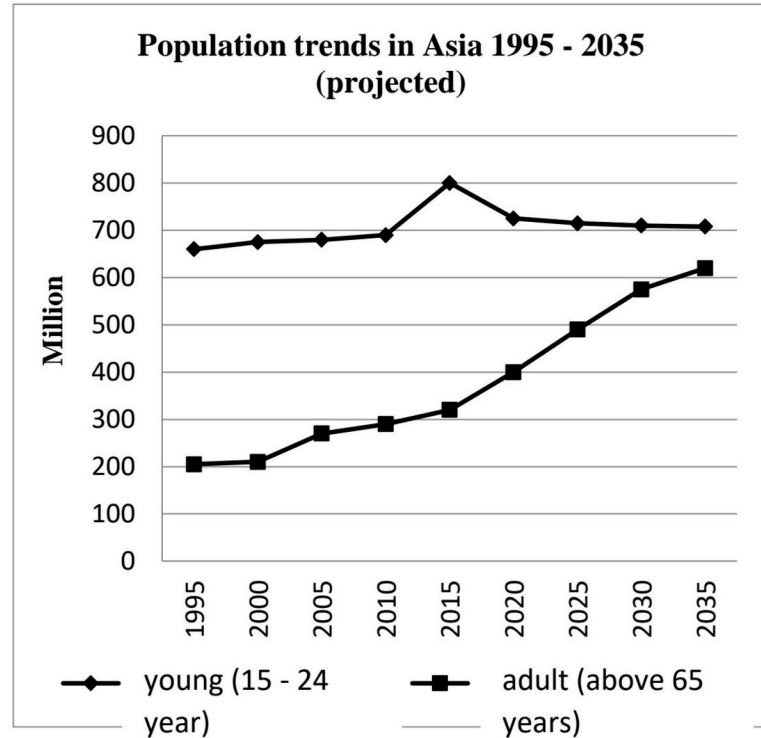
- i. Define " hydrosphere" (2 marks)
ii. Name and explain briefly the processes shown by the letter A B C and D in this diagram which shows the processes of water cycle (6 marks)
iii. Describe with examples 2 ways how the processes of hydrological cycle affects the environmental phenomena. (6 marks)
iv. Name 3 human activities which affect for water pollution or changing the quality of water and describe one of them. (6 marks)



Part II - Human Geography

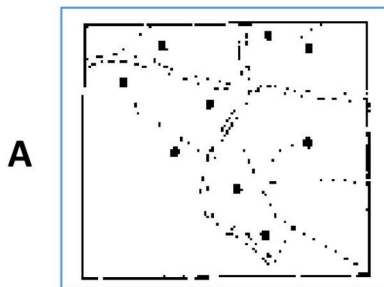
05). The most important resource of a country is its population.

- i. According to this graph, write two main salient features when comparing young population in the age group 15 - 24 and adult population in age group above 65 years from 1995 - 2035 (2 marks)
- ii. Discuss three main problems that should be considered in compiling development strategies for age group 15 - 24 (6 marks)
- iii. Explain two reasons which affect for the growth of adult population in most of the countries in present World (6 marks)
- iv. describe 4 Problems that should be considered for the adult population in socio - economic development in Asian countries. (6 marks)



06). " A habitat made by man on the earth's surface" - Dickinson

- i. Two main settlement patterns that can be identified in the Word is shown in the following diagram Name them correctly.



(2 marks)

- ii. Describe 3 measures which have been taken for the development of settlement seen in the "A" in Sri Lanka. (6 marks)
- iii. a). Name 3 main types of settlement seen in Sri Lanka. (3 marks)
- b). Explain Features seen in one of above settlement (3 marks)
- iv. Name 3 physical and human factors that affect for the origin of settlement and describe one of them. (6 marks)

07). The Urbanization which grew in parallel with the industrial revolution is a phenomenon that has been responsible for many socio - economic changes World over.

- i. Following map shows few countries which recorded minimum level of World urbanization in 2014. Name countries A,B, C and D correctly.

(2 marks)

- ii. What are the name given for the New urban zone which have distributed by crossing the countries at present and name distribution areas of those zones.

(6 marks)

- iii. Explain three sectors which spread to other areas originating form the urban centers.

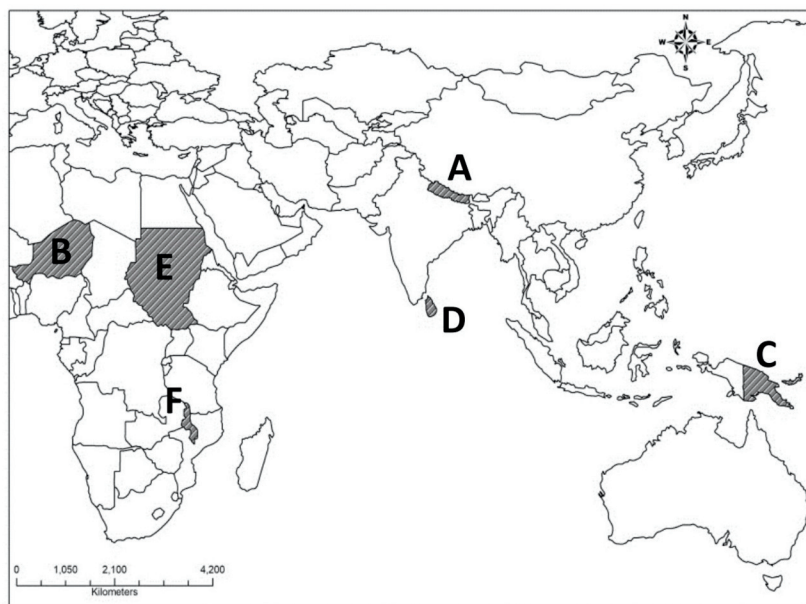
(6 marks)

- iv. Describe 3 measures that have been taken by the government in order to solve problems associated with urbanization in Sri Lanka.

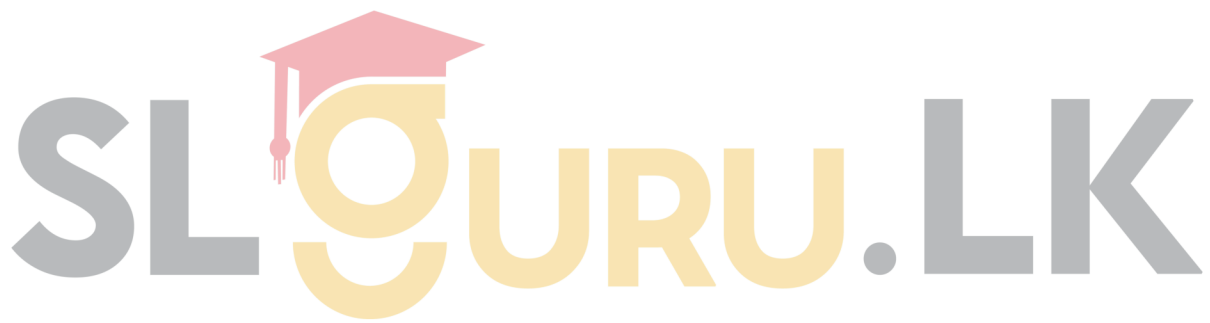
(6 marks)

08). " The movement of people that takes place between geographical units resulting in a change in the usual residence is migration" - United Nation.

- i. Write four main features of international migration (4 marks)
- ii. Discuss 2 problems which has to be faced by developed countries due to migration (4 marks)
- iii. Describe factors which induce international migration. (6 marks)
- iv. Explain 3 main features that are seen in migration in Sri Lanka. (6 marks)



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