

- 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
v. Choropleth map
iii. Thematic map
iv. Isoplepth map $\qquad$
02). How many times do the satellites in GPS revolve around the earth on an allotted orbit a day at a speed around $11,000 \mathrm{Km}$ per hour.
i. Once a day
ii. Thrice a day
iii. Five times a day
iv. Twice a day
v. Four times a day $\qquad$
03). The Location of $500,000 \mathrm{mN}$ and $500,000 \mathrm{mE}$ 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
$\qquad$
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 $\qquad$
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
v. Global Positioning System (GPS)
iv. Remote Sensing
$\qquad$
06). Which answer shows the correct order of following topographical features.

i. gap, depression, conical hill


ii. gap, plateau, conical hill
iv. Spur, plateau, residual hill
$\qquad$
07). The number of additional satellites which have been placed in the orbit to be utilized in an emergency situation in GPS is,
i. 24
ii. 5
iii. 31
iv. 10
v. 7
08). Select the answer that contains only specific Geographical Information Systems software,
i. ArcGIS, QGIS, Photoshop
ii. MapInfo, Excel, JetAudio
iii. ArcGIS, MapInfo, ILWIS
iv. Chrome, ArcGIS, ILWIS
v. ILWIS, Arcview, ERDAS
09). What is represented by horizontal and vertical blue colour grid lines (grid network) in a topographical map of $1: 50000$ scale?
i. grid network which belong to national co - ordinates.
iii. latitude lines
v. Lines which shows time zone
ii. Longitude lines
iv. longitude and latitude lines
10). The answer that name correctly the following space platform that used for Remote Sensing is,

i. Aeroplanes, Apace Centres, Satellite
ii. Rocket, Aeroplanes, Space Crafts
iii. Space Crafts, Satellites, Space Centers
iv. Satellite, Space craft, Rockets
v. Space Crafts, space Centres, Satellite $\qquad$
11). Of world earth quakes, more than $70 \%$ epicenters are located in,
i. Mediterranean zone
iii. East African rift valley zones
v. Mid Atlantic oceanic zones
ii. Peri - Pacific ocean zones
iv. Himalaya mountain range
12). What are the landforms shown no 1,2 and 3 in adjacent diagram that shows landfroms 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 $\qquad$

13). Most suitable soil groups for paddy caltivation which are seen in both wet and dry zones in Sri Lanka.
i. reddish brown earth soil
ii. reddish brown latasols
iv. Grumusols soil
v. Red yellow podzol soil
iii. Alluvial soil
$\qquad$
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
## metamorphosed rock

A. quartzite
granite
B. Shale

Sandstone
C. gneiss
D. Marble
D. Marble
iii. D B A
iv. C A D
v. B CD
(............)
i. A B C
ii. D C A
,
(............)
iii. D
iv.
19). The answer that name correctly the landform shown in following diagrams.


i. monoclinal fold, symmetrical fold, thrust fold iii. Isoclinal fold, symmetrical fold, thrust fold
v . Isoclinal fold, monoclinal fold, thrust fold
ii. Isoclinal fold, Asymmetrical fold, thrust fold
iv. monoclinal fold, symmetrical fold, asymmetrical fold
$\qquad$
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
i. Solution
ii. abrasion
iii. depostion
iv. deflation
v. corrosion
(............)
21). To which geological period, the rocks more than 70 million years old found in Tabbowa, Andigama and pallama areas belong,
i. Miocene period ii. Jurassic period iii. Pre Cambrian period
iv. Quartionary period
v. Helocene period
(............)
22). Select the answer when World major volcanoes (Column I) is correctly matched with their lacated countries (Column II)

## I. Valcano

- Fujiyama
- Hecla
- Krakatoa
- St. Helena
II. Located country
A. Unied States of America
B. Japan
C. Indonesia
D. Italy
E. Iceland
i. B, E, C, A
ii. A, B, C, E
v. B, E, C, A
iii. B, E, D, A
iv. E, C, A, D
$\qquad$
23). Select the answer that contain only landforms formed by tensional movement
i. Symmetrical fold, assymetrical fold, isoclinal fold
ii. thrust fault, rift valley, normal fault
iii. rift valley, horst, monoclinal fold.
iv. normal fault, symmetrical fold, rift valley
v. Synclinorium, normal fault, Step fault $\qquad$
24). of the plates by which the lithosphere consists according to the hypothesis of plate tectonics the answer that contatin only continental plates is,
i. Indo - Australian plate, Iran plate, Pacific plate
ii. Eurasian plate, Indo - Australian Plate, South American plate
iii. Nazca plate, Cocos plate, Pacific Plate
iv. Cocos Plate, Pacific plate, Antarctic Plate
v. Pacific plate, Phillippine plate, African Plate $\qquad$
25). Select the answer that shows intrusive volcanic land forms respectively which marked by the letters A, $\mathrm{B}, \mathrm{C}$, in the following diagram.

i. Lopolith, Laccolith, Sill
ii. Batholith, Laccolith, Phacolith
iii. Batholith, Lopolith, Sill
iv. Batholith, Lacolith, Dyke
v. Batholith, Laccolith, Sill
(.............)
26). In which year the last population and housing census covering whole island was held in Sri Lanka?
i. 1881
ii. 2012
iii. 2001
iv. 1981
v. 1891
(............)
27). The continent in which a large number of poor countries in the world are distributed?
i. Continent of Asia
ii. Continent of Europe
iii. continent of Australia
iv. Continent of Africa
v. Continent of South America
(............)
28). Select the answer that contain only sub branches of human geography.
i. development geography, economic geography, urban geography
ii. Climatology, economic geography, urban geography
iii. development geography, economic geography, coastal geography
iv. geomorphology, economic geography, archaeology
v. economic geography, environmental geography, urban geography $\qquad$
- Write answers for the question no $29, \mathbf{3 0 , 3 1}$ with the help of the map that prepared according to the recent population census information of Sri Lanka.
29). Letters F and D show respectively
i. Two districts with lowest and highest population density.
ii. Two districts with highest population and highest birth rate.
iii. Two districts with highest and lowest population density
iv. Two districts with highest population density and lowest death rate.
v. Two districts with highest and lowest birth rate $\qquad$ ..)
30). Killinochchi district shown by the letter " A " is a
i. district with lowest crude birth rate
ii. district with highest crude death rate
iii. District with highest population growth rate
iv. district with lowest crude internal migration
v. district with highest crude birth rate $\qquad$

31). Select the answer that shows two districts with heavy migration related to development projects.
i. A and C
ii.B and C
iii. B and D
iv. E and B v. F and E
(............)
32). Negative value of rate of natural increase in a country shows,
i. number of deaths increase exceeding the number of births
ii. number of brith increase exceeding the number of deaths
iii. migration increase exceeding the number of births
iv. migration increase exceeding number of deaths.
v. number of births increase exceeding the migration
(............)
33). When considering the growth of world population, rapid population growth within very short period took place
i. after 1800 AD
ii. after 1850 AD
iv. after 1900 AD
v. after 1750 AD
iii. before 1750 AD
(.............)
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
iv. dispersed settlement
v. junction settlement
iii. Nucleated settlement
$\qquad$
35). Which answer contain the letter that shows Nigeria, the country with highest world population growth rate,
i. F

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
iv. Brazil and Pakistan
v. Pakistan and Brazil
iii. Bangladesh and Cuba
(............)
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 contrictive 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 occurance of women's death in the age group 15-44 more than due to cancer, malaria and road accidents.
i. Violence
ii. Pregnancy
iii. Commiting suidide
iv. abortion
v. parturition $\qquad$
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 $\qquad$


## Second Term Test - Grade 12-2020

## Geography I

## Part - II

## - Answer all the questions

1) Answer the following questions based on the metric map of 1:50 000 scale provided Contour interval is 20 m .
i. Name the feature shown by the line A - B in the map
ii. To which direction does the slope of the map extend?
(1 marks)
iii. Name the type of vegetation shown by the letter "C" and the feature shown by the letter "D" (2 marks)
iv. Name main commercial crop seen in the square "E" (1 marks)
v. Calculate the distance of main road $\mathrm{x}-\mathrm{y}$ in kilometers.
vi. Name six cultural features found in the square. "H"
vii. Calculate the area of the real land represented by the map.
viii. Comments on transportation system of the mapped area.
ix. Describe the relationship between relief and land utilization.
2) Mark and name following things in the outline map of World supplied. Use standard colours and symbols.
i. Andes mountain range
iv. Barents sea
vii Aleutian trench
ix. World largest fresh water lake

$$
\begin{array}{ll}
\text { ii. Zambezi river } & \text { iii. Ukatan perninsular } \\
\text { v. Capentarian bay } & \text { vi. Mongolia }
\end{array}
$$

viii Brundi state with lowest level of urbanization in Africa
x. The country which held a referendum to leave European Union

## Part III

## Answer only for two questions.

3) 



A model of 1:50 000 topographic map is given below.
i. Name the areas marked as $\mathrm{X}, \mathrm{Y}, \mathrm{Z}$
ii. Name information shown at the locations A, B, C in the area "X"
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.
04). i. Define the term Global Positioning System (GPS)
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 arial 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)


## - 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.
i. In this diagram which shows stratification of atmosphere,
a). Write letters and name two layers in which temperature increase with altitude.
(2 marks)
b). Name three layer with lowest temperature.
(1 marks)
ii. Describe briefly three effect of atmospheric pollution
(6 marks)
iii. Name 3 harmful effect of human activities done on earth crust and describe one of them
(5 marks)
iv. 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.
i. 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)
ii. Explain briefly the processes in each stages of the river.
(6 marks)
iii. Explain with diagrams the methods of transportation of the river load. (5 marks)

iv. 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 <br> sedimentary | A | pebbles, Boulder clay, <br> Breccia |
| :---: | :--- | :--- |
|  | A renaceous | B |
| emically deposited | C | Salt, Salt rocks |
| Sedimentary 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 countrye 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.
iii. a). Name 3 main types of settlement seen in Sri Lanka.
b). Explain Features seen in one of above settlement
iv. Name 3 physical and human factors that affect for the origin of settlement and describe one of them.
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.
iv. Explain 3 main features that are seen in migration in Sri Lanka.

