



## GEOGRAPHY

(Three hours and a quarter)

(The first 15 minutes of the examination are for reading the paper **ONLY**.)

Candidates must **NOT** start writing during this time).

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**INSTRUCTIONS:** Answer Question 1 (COMPULSORY) from Part I and any FIVE questions from Part II. Sketches, Maps and diagrams should be drawn wherever they serve to illustrate your answers. The intended marks for questions are given in brackets [ ]

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### Part I- Compulsory

[15X2=30]

#### Question 1

- a) Name TWO types of surface waves.
- b) 'In spite of high temperatures in the interior of the Earth, rocks act as a solid'. Justify the statement.
- c) What is diastrophism? Name TWO forces of diastrophism.
- d) Discuss any TWO physical properties of soil.
- e) 'The river systems produce several types of drainage patterns'. Explain any two.
- f) "Sand dunes are never stationary". Explain the statement with two reasons.
- g) What do the curved path of the earthquake waves indicate?
- h) "Out of Geosynclines have come mountains". Discuss the statement.
- i) Define frost weathering.
- j) Illustrate any one depositional landform of glacier.
- k) When is the international Ozone day celebrated? Name the recent volcanic eruption in Hawaii.
- l) Why are Aeolian processes more prominent in the desert area?
- m) Name two agents of physical weathering.
- n) "Metamorphic rocks are the changed forms of igneous and sedimentary rocks". Explain.
- o) Explain the movement of glacier by Liou Agassiz.

#### Question 2.

In the outline map of world locate the following:

[10 Marks]

- a) Name and shade over the area of Tundra soil.
- b) Name and mark **PM** for Prime Meridian.
- c) Write **HM** over the area of Himalayan Mountains.
- d) Name and locate largest canyon of the world with **LCW**.
- e) Name Atacama Desert and mark **A**.
- f) Write **SD** over Sahara desert.
- g) Write **WAD** over the Western Australian desert.
- h) Locate Bay of Bengal.
- i) Mark **EQUATOR**.
- j) Shade **AC** over Arctic Circle.

**Question 3****[MAP PROJECTION]****[10 Marks]**

- a) What is map projection? [1]
- b) Define the following terms; [1]
  - i) Graticule
  - ii) Map
- c) How is the pole shown in the cylindrical equal area map projection? [1]
- d) Give the limitations of cylindrical projections. [1]
- e) Mention any two uses of cylindrical equal area map projection. [1]
- f) Draw the graticule of cylindrical equal area map projection on a scale of 1:320,000,000 for the whole world with the graticule interval of 30°. [5]

**Part II [70 MARKS]****Answer any FIVE questions****Question 4**

- a) Define rock. Why is igneous rock called parent rock? [2]
- b) Write short notes on pressure inside the earth surface. [2]
- c) Illustrate the formation of Block Mountain and Rift Valley with the help of a proper diagram. [3]
- d) Assess any TWO importance of water vapor in the atmosphere. [2]
- e) What are moraines? [1]

**Question 5**

- a) What are fluvial landforms? Name its three major courses. [2]
- b) Draw and explain an intermontane plateau. [2]
- c) What do you mean by shadow zone? What is its significance [2]
- d) Explain the process of deflation by wind. [2]
- e) What is metamorphism? Give one example of metamorphic rock. [2]

**Question 6**

- a) Discuss the process of insolation as an agent of physical weathering. [2]
- b) What are the different agents of gradation which are responsible for the formation of the following land features? [2]
  - i) Natural levees
  - ii) Mushroom rocks
  - iii) Arêtes
  - iv) Rapids
- c) Why are plateaus regarded as storehouses of minerals? [2]
- d) Explain the formation of waterfall in detail with the aid of a diagram. [3]
- e) Why are the sedimentary rocks called as stratified rocks? [1]

### Question 7

- a) Distinguish between the following. [ $\frac{1}{2} \times 10 = 5$ ]
- i) Snowfield and Snowline
  - ii) P- Waves and S Waves
  - iii) Rocks and Soil
  - iv) Folding and Faulting
  - v) Alluvial Fans and Alluvial Cones
- b) Give a *single* term for each of the following: [1x5=5]
- i) A very deep-seated intrusive rock of igneous group.
  - ii) A stream that gets divided into a network of interconnected channels.
  - iii) The outgoing radiation from the surface of the earth.
  - iv) Basket of eggs topography.
  - v) Vertical cross section from the surface to the bedrock.

### Question 8

- a) What are the In-direct evidences that enable us to study about earth's interior? [2]
- b) Explain the formation of river meander with the help of a diagram [2]
- c) "Airplanes are incapable of flying through troposphere". Give two valid reasons. [2]
- d) Illustrate the formation of oasis in the desert area. [4]

### Question 9

- a) What is the name given to Sandy desert and Rocky desert in Sahara? [2]
- b) Explain the formation of U-shaped valley with the aid of a diagram. [3]
- c) Explain two factors affecting the erosional work of river. [2]
- d) List down the active factors of soil formation. Explain one in detail. [2]
- e) Define Gorge. [1]

### Question 10

- a) Mention two factors responsible for the depletion of ozone. [2]
- b) Analyze the importance of metamorphic rocks to human beings. [2]
- c) Draw and explain any two erosional landforms by wind. [4]
- d) Explain the greenhouse effect. [2]