# GEOGRAPHY FORM 4 MARKING SCHEME

1. a) Divisions of Physical Geography: Geomorphology, Climatology, Biogeography. (3 mks) b) Geography & Agriculture: Soil maps (fertilizers), Climate maps (crops), Landforms (systems). (2 mks)

2. a) Difference:

- Latitude: Angular distance N/S of Equator.
- Longitude: Angular distance E/W of Greenwich. b) Time Calculation:
- Diff = 109°. Time diff = 109 x 4 = 436 min = 7h 16 min.
- Time = 8:00 AM + 7h 16 min = 3:16 PM (15:16). (3 mks)

3. Structure of the Earth

- P: Crust. Q: Mantle. R: Gutenberg discontinuity (or Moho if P=Mantle boundary).

4. Mineral: Naturally occurring, inorganic, solid, definite chemical composition, crystalline structure. (2 mks) Classification: Mode of formation, Mineral composition, Texture. (Any 3).

5. Field Study

- (i) Characteristics: Colour, Hardness, Lustre, Cleavage.
- (ii) Follow up: Report writing, Data analysis, Displaying specimens.

6. a) Karst Scenery: Landscape on limestone shaped by chemical weathering/solution. (2 mks) b) Stalactite formation: Rain water + $CO_2$ = Carbonic acid. Dissolves $CaCO_3$ in limestone. Reaches roof of cave; water evaporates/$CO_2$ released; Calcite deposited. (4 mks)

7. a) (i) Lake: Depression filled with water. (2 mks) (ii) Formation: Tectonic, Volcanic, Damming, Glacial, Wind. (Any 4). b) Salinity: High evaporation, Lack of outlet (inland drainage), Volcanic mineral washing. (Any 2 x 2 = 4 mks).

8. i) Soil Colour Factors: Parent material, Organic matter, Drainage/Oxidation. (2 mks) ii) Soil Erosion: Removal/transportation of topsoil by agents like water/wind faster than formation. (2 mks).

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