**Lesson Plan**

**Department of Geography, Govt.College Barota (GOHANA)**

**Paper: Physical Geography (Theory)**

**Class and Session: B.A. 2nd SEM.**

**(from Jan 2024 to April 2024)**

**Name of the Assistant /Associate Professor: Mr. Santosh Kumar and Dr. Bijender Singh**

| **Month: January** | **Chapter-1**  **Definition , Nature, scope, and fields of physical geography** |
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| **Week: 1** |  |
|  | Introduction of Physical Geography, Geomorphology  Definition, Nature of Physical Geography |
|  | Scope of Physical Geography |
|  | Fields of Physical Geography |
|  | Relation with other sciences |
|  | Importance of Physical Geography, Discussion |
|  |  |
| **Week 2** | **Chapter-2**  **Constitution of the Earth’s Interior** |
|  |  |
|  | Introduction of the Interior of Earth |
|  | Sources of the Earth’s Interior |
|  | Seismic Waves |
|  | Different layers and their chemical composition |
|  | Modern views regarding Earth’s Interior |
|  | Conclusion and Discussion |
| **Week 3** | **Chapter-3**  **Geological Time Scale** |
| **Assignments** |  |
|  | Origin and age of the earth |
|  | Meaning ,Purpose, importance and time Spans |
|  | Protozoic eon (Palaeozoic Era) |
|  | Phenerozoic eon (Mesozoic Era) |
|  | Cainozoic Era |
|  | Discussion |
| **Week 4** | **Chapter-4**  **Rocks** |
|  |  |
|  | Meaning and Definition |
|  | Classification of Rocks |
|  | Igneous |
|  | Sedimentary, Metamorphic, Rock cycle |
|  |  |
| **Week: 5** | **Discussion and Presentation** |
|  | **Test-I** |
| **Month: February**  **Week:1** |  |
|  | Endogenetic forces, Exogenetic forces |
|  | Diastrophism |
|  | Folds, Faults |
| **Week: 2** |  |
|  | Topography produced by faults |
|  | Discussion, |
|  | **Chapter-6**  **Earthquakes and Volcanoes** |
|  | Meaning and Definition |
|  | Origin of Earthquakes and Waves |
| **Week:3** |  |
|  | Intensity and magnitude of Earthquakes, Causes of Earthquakes |
|  | Classification and distribution and effects of Earthquakes  Seismic zone of India |
|  | Volcanoes |
|  | Volcanoes land forms, Distribution of volcanoes |
|  | **Chapter-7**  **Theory of Isostasy** |
|  |  |
|  | Meaning and Definition. |
|  | J.H. Pratt view of Isostasy, Bowies views |
|  | Joly’s view, Aurthor Holms View, Isostatic Adjustment |
|  | **Chapter-8**  **Theory of Continental Drift,** Background of the theory |
|  | Wegner’s theory |
|  |  |
| **Week 5** |  |
|  | Latest proofs in favour of continental Drift Theory |
|  | Criticism of Wegner’s Theory, Conclusion and Discussion |
|  | **Chapter-9**  **Plate Tectonics,** Origin and evolution |
| **Month: March,**  **Week:1** | Criticism and significance |
|  | Causes of Plate Movement, Discussion |
|  | **Chapter-10**  **Weathering** |
|  | Aggredation, and Degradation |
|  | Definition of Weathering, Definition of Weathering |
|  | Types of Weathering, Physical, Chemical, Biological |
| **Week: 3** | Factor affecting Weathering, importance of Weathering, Discussion |
|  | **Chapter-11**  **Mass Movement** |
|  | Meaning and Definition , Factor Affecting Mass Movement |
|  | Types and Impacts of Mass Movement, Discussion |
|  | **Chapter-12**  **Cycle of Erosion, Meaning and Definition** |
|  | Cycle of Erosion by Devis, By Penk |
| **Week: 4** | Erosion, Normal Cycle of Erosion |
|  | Rejuvenation, landforms produced by Rejuvenation |
|  | Importance of cycle of erosion |
|  | **Chapter-13**  **The Work of Wind and Aeolin Landforms (Denudation)** |
|  | Wind: meaning and area of operation |
|  | Types of Deserts, Works of wind |
| **Week: 5** | Factors controlling wind erosion |
|  | Landforms produced by winds Erosion, BY wind Deposition, Discussion |
|  | **Chapter-14**  **The work of River and Produced Landforms** |
|  | River: Meaning, Birth and Journey |
| **Month: April**  **Week:1** | Erosional work of river |
|  | Transformational work of river |
|  | Depositional works of river |
|  | Landforms produced by River |
|  | Upper river valley |
|  | Middle part of river valley |
| **Week: 2** | Lower part of river valley |
|  | Development of River Valley |
|  |  |
|  | Tributary, Distributary |
|  | Drainage basin, catchment area, watershed and water devide |
|  | **Chapter-15**  **Underground Water and Karst Landforms** |
| **Week: 3** | Meaning and definition of underground water, Sources of ground water, Water table |
|  | Water saturation zone, Springs, Artesian wells |
|  | **Chapter-16**  **The works of Glaciers and glaciated landforms** |
|  | **Test II** |
|  | **Meaning, definition, types of glaciers, works of Glaciers** |
|  | Landforms produced by glacier through erosion, deposition |
| **Week: 4** | **Chapter-17**  **Work of sea waves and coastal landforms** |
|  | Meaning, definition, structure and types of sea waves |
|  | Erosional, deposition work and marine process erosion, Sea coastline |
|  | **Revision and Problems** |
|  | **Revision** |
|  | **Revision** |