

**INTRODUCTORY CLASS ON**  
**GEOGRAPHICAL THOUGHT ( 6<sup>TH</sup> SEM.**  
**GEOA)**

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**Date & time of online class: 17.04.2021 { 12.30pm-**  
**1.30pm)**

# **WHAT IS GEOGRAPHICAL THOUGHT?**

- **A. DESCRIPTION OF EARTH BOUND PHENOMENA.**
- **B. BASIC QUESTIONS OF GEOGRAPHY-**
  - **1 Where? 2. Why? 3. What? 4. How ? 5. So what ? 6.**  
**What is spatial distribution ?**
- **C. ACCURATE, ORDERLY AND RATIONAL DESCRIPTION AND INTERPRETATION OF THE VARIABLE CHARACTER OF THE EARTH SURFACE.**
- **D. GEOCRATIC TYPE OF GEOGRAPHY.**
- **E. THEOCRATIC TYPE OF GEOGRAPHY.**
- **F. WE-OCRATIC TYPE OF GEOGRAPHY.**

# FUNDAMENTAL CONCEPTS OF GEOGRAPHICAL THOUGHT

- 1. EARTH SURFACE.
- 2. AREAL DIFFERENTIATION
- 3. THE REGION.
- 4. LOCATION.
- 5. TIME.
- 6. CAUSE AND EFFECT.
- 7. SEQUENT OCCUPANCE.
- 8. SPATIAL DISTRIBUTION.
- 9. SPATIAL INTERACTION.
- 10 GEOGRAPHY AS AN EMPIRICAL SCIENCE.
- 11. SYNTHESIS.
- 12. UNITY OF NATURE.

# RELATIONS WITH OTHER SCIENCES

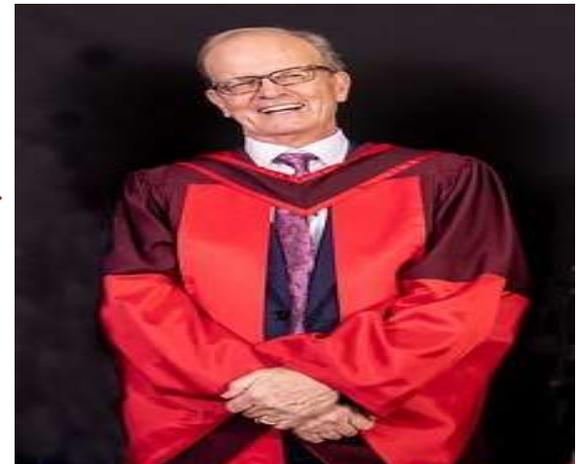
- 1. ASTRONOMY.
- 2. GEOLOGY.
- 3. PHYSICS.
- 4. BOTANY.
- ECOLOGY



**MAP OF AL-IDRISI**

# RELATIONS WITH SOCIAL SCIENCES & HUMANITIES

- 1. ECONOMICS.
- 2. SOCIOLOGY.
- 3. ANTHROPOLOGY. HISTORY.
- 4. CULTURAL STUDIES.
- 5. LITERATURE.
- 6. PHILOSOPHY.
- 7. RELIGIOUS STUDIES.
- 8. CRITICAL STUDIES.
- 9. POST MORDERN CONCEPTS
- PHOTOGRAPH OF MICHEL →
- -DEAR, POST MODERN-
- -GEOGRAPHER



# MAJOR SCHOOLS OF GEOGRAPHICAL THOUGHT

- **A. GERMAN SCHOOL OF GANZHET, CHROLOGY AND LANDSHAFTSKURTDE.**
- **B. FRENCH SCHOOL OF “LA GEOGRAPHIE HUMAINE”.**
- **C. BRITISH SCHOOL OF REGIONAL STUDIES.**
- **D. RUSSIAN SCHOOL OF LANDSCAPE SCIENCE.**
- **E. AMERICAL SCHOOL OF SPATIAL SCIENCE AND HUMAN GEOGRAPHY.**
- **F. MODERN INDIAN GEOGRAPHICAL THOUGHT.**

# EVOLUTION OF GERMAN GEOGRAPHICAL THOUGHTS

- A. 1<sup>ST</sup> PHASE OF CLASSICAL PERIOD OF GERMAN GEOGRAPHICAL THOUGHT ( CONTRIBUTIONS OF IMMANUEL KANT & VARENIUS).
- B. 2<sup>ND</sup> PHASE OF CLASSICAL PERIOD OF GERMAN GEOGRAPHICAL THOUGHT ( CONTRIBUTIONS OF ALEXANDER VON HUMBOLDT & CARL RITTER ).
- C. MODERN GEOGRAPHICAL THOUGHT OF GERMANY.

# CONTRIBUTION OF ALEXANDER VON HUMBOLDT(1769-1859)

- TOPIC OF DISCUSSION

- **A. LIFE AND WORKS .**
- **B. GEOGRAPHICAL EXPEDITIONS**
- **C. PUBLICATIONS OF RESULTS OF AMERICAN EXPEDITIONS.**
- **D. RUSSIAN EXPEDITIONS AND GENERALIZATIONS.**
- **E.GEOGRAPHICAL CONCEPT OF HUMBOLDT.**
- **F.THE CONCEPT OF “ COSMOS”.**
- **G.SYSTEMATIC GEOGRAPHY.**
- **H. REGIONAL GEOGRAPHY.**
- **I. OVERALL CONTRIBUTION.**

# A. LIFE AND WORKS( PHOTOGRAPH OF A. HUMBOLDT)



## **B. EXPEDITIONS TO AMERICA**

- **1<sup>ST</sup> PHASE OF EXPEDITIONS- FIRST AT VENEZUELA THEN FOUND LAKE VALENCIA IN 1800.**
- **2<sup>ND</sup> PHASE- NORTHERN AMAZON BASIN.**
- **3<sup>RD</sup> PHASE –MAPPING OF ORINIO RIVER.**
- **4<sup>TH</sup> PHASE- VISITING ANDEAN AMAZON REGION.**
- **5<sup>TH</sup> PHASE- VISITING VOLCANOS OF ECUADOR IN 1802.**
- **6<sup>TH</sup> PHASE- AT CUBA IN 1804.**
- **7<sup>TH</sup> PHASE- USA IN LATER PERIOD OF 1804.**

# **C. PUBLICATIONS OF RESULTS OF AMERICAN EXPEDITIONS**

- **A. TOPICS OF PUBLICATIONS-**
- **1. NEW MAPPING OF VISITED AREAS.**
- **2. CAREFUL SCIENTIFIC INVESTIGATION ON INTER RELATIONSHIP BETWEEN PHYSICAL GEOGRAPHY, ECOLOGY AND SPACE OF VISITED PLACES.**
- **3. CONTRIBUTIONS ON BIO-GEOGRAPHY.**
- **4. ESTABLISH RELATIONSHIP BETWEEN RATIONAL UTILIZATION OF NATURAL RESOURCES WITH ECONOMIC PROSPERITY.**
- **B. MAIN ARTICLES:**
- **1. “VOYAGE AUX REGIONS EQUINOXIALES DU NOUVEAU CONTINENT”. (1816)**
- **2. “ RELATION HISTORIQUE”( 1818-1819)**

# **D. RUSSIAN EXPEDITION AND GENERALIZATIONS**

- **A. 1<sup>ST</sup> PHASE- VISIT TO ST. PETERSBURG AND OMSK.**
- **B. 2<sup>ND</sup> PHASE- VISIT TO SIBERIA**
- **MAIN OBSERVATIONS AFTER EXPEDITION**
- **1. CONSTRUCTION OF FIRST WORLD MAP ON THE BASIS OF TEMPERATURE USING ISOTHERMS .**
- **2. DEVELOPMENT OF THEORETICAL FRAMEWORK OF CLIMATIC CLASSIFICATIONS.**
- **3. INTRODUCTION OF TERM “ CLIMATOLOGY”.**

# **E.GEOGRAPHICAL CONCEPTS OF HUMBOLDT**

- 1. “ HARMONIOUS UNITY OF COSMOS” ( INFLUNCE OF GOETHE AND J.C.F.VON SCHILLER) = HARMONIOUS UNITY IN NATURE.
- 2.CONCEPT OF “PHYSIOGRAPHIA”.
- 3. CLASSIFICATION OF “COSMOGRAPHY” = a) Uranography, b) Geography.
- 4. “IDEA OF UNITY OF HUMAN RACE”.
- 5. CONCEPT OF UNITY IN NATURE PRESUMED A CASUAL INTERRELATIONS OF ALL THE INDIVIDUAL FEATURES IN NATURE.
- 6. UNITY IN THE RELATIONSHIP BETWEEN ORGANIC LIFE WITH INORGANIC SURFACE.
- 7. CONCEPT OF “ LANDSCHAFT” & “ ROMANTIC” MOVEMENT.
- 8. VALUE OF “COMPERATIVE GEOGRAPHY”.

## F. “THE COSMOS”

- A. HUMBOLDT WOULD BE KNOWN FOR HIS BOOK “COSMOS” ( FIVE VOLUMES-1845-1858).
- THE PHILOSOPHY OF “COSMOS”
- 1. PHYSICAL DESCRIPTION OF WORLD AS A SPECIAL & SEPARATE DISCIPLINE.
- 2. EMPIRICAL ASPECTS OF NATURE’S ENTITY.
- 3. THE ACTION OF NATURE STUDIES THROUGH MEDIA SUCH AS TRAVEL DESCRIPTIONS, POETRY, LANDSCAPE PAINTING & COMPARATIVE PLANT STUDIES.
- 4. HISTORY OF NATURAL PHILOSOPHY.

# G. CONCEPT OF SYSTEMATIC GEOGRAPHY

- **HUMBOLDT CATEGORISED THE KNOWLEDGE OF NATURAL OR PHYSICAL PHENOMENA INTO THREE GROUPS :**
- **1. SYSTEMATIC SCIENCE ( BOTANY, ZOOLOGY AND GEOLOGY OF SPACE ).**
- **2. HISTORICAL SCIENCES ( HISTORY OF THE DEVELOPMENT OF ANIMALS, PLANTS & ROCKS ).**
- **3. GEOGRAPHY OR EARTH SCIENCE OR *ERDKUNDE OR PHYSICAL GEOGRAPHY.***
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# H. CONCEPT OF REGIONAL GEOGRAPHY

- **WORKS OF HUMBOLDT ON REGIONAL GEOGRAPHY- 1. “ESSAI POLITIQUE SUR LE ROYAUME DE LA NOUVELLE ESPAGNE”, 2. ESSAI POLITIQUE SUR I ILE DE CUBA”.**
- **CONCEPT OF REGIONAL GEOGRAPHY**
- **1. INTERDEPENDENCE OF AREAL PHENOMENA.**
- **2. HUMAN FACTORS APPEARED TO BE SUBORDINATED TO THE NATURAL FACTORS . ( SUDEEDTA ADHIKARI)**

# I. METHODS AND APPROACHES

- 1. EXTENSIVE FIELD WORKS.
- 2. GEOGRAPHICAL EXPEDITIONS.
- 3. EMPIRICAL METHODS OF RESEARCH.
- 4. INDUCTIVE APPROACH.

## The Route of Alexander Von Humboldt



# INSTRUMENTS OF GEOGRAPHICAL EXPEDITION BY HUMBOLDT

## KEY WORDS

### ▶ **SEXTANT:**

▶ An instrument with graduated arc of 60 degree and a sighting mechanism, used for measuring the angular distance from objects and especially for taking altitude in navigation and surveying.

### ▶ **TELESCOPE:**

An optical instrument designed to make distant object nearer, containing an arrangement of lenses and curved mirrors by which rays of light are collected and focused and resulting image magnified (exaggerated )

### ▶ **ETHNOGRAPHICAL SPECIMENS:**

the scientific description of people and cultures with reference to their particular customs and characteristics

# INSTRUMENTS OF GEOGRAPHICAL EXPEDITION BY HUMBOLDT(02)

Cont.....

▶ **ARCHEOLOGY :**

The study of human history and pre history through the excavation of Site and the analysis of art facts and other physical remains.

▶ **FLORA :**

Flora is a word of Latin origin referring to Flora, the goddess of flowers. The term can refer to a group of plants of a region.

▶ **FAUNA:**

Fauna can refer to the animal life or classification of animals of a certain region, time period, or environment.

# CONTRIBUTIONS OF HUMBOLDT

- 1. HUMBOLDT’S VIEW OF GEOGRAPHY AS A SCIENCE.
- 2. CONCEPT OF “GEOGNOSIA”.
- 3. SYSTEMATIC EPISTEMOLOGY OF GEOGRAPHY.
- 4. ASTHETIC SATISFACTION.
- 5. CONCEPT OF INTERDEPENDENT UNITY IN NATURE (“ZUSAMMENHANG”).
- 6. GEOGRAPHY AS “DISTINCTIVE SCIENCE”.
- 7. EMPIRICAL AND INDUCTIVE METHOD.
- 8. **HUMBOLDT IS REGARDED AS THE FATHER OF SYSTEMATIC PHYSICAL GEOGRAPHY.**

# THANK YOU

## MAP SHOWING RIVER SYSTEM IN S AMERICA

