

ADIKAVI NANNAYA UNIVERSITY

RAJAMAHENDRAVARAM

CBCS / Semester System

(From 2015-16 Admitted Batch)

III Semester Syllabus

B.A. / B.Sc. GEOGRAPHY

Paper 301 Physical Geography-II

Unit-I

1. Weather and Climate; Origin, composition and structure of atmosphere.
2. Insolation, Global heat budget, Horizontal and vertical distribution of temperature, inversion of temperature.

Unit-II

1. Atmospheric pressure- measurement and distribution, pressure belts, planetary winds, Monsoon and Local winds.

Unit-III

1. Humidity- measurement and variables, evaporation, condensation, precipitation forms and types and distribution.

Unit-IV

1. Climate classification by Koppen

Unit-V

1. Configuration of oceanic floors, Temperature and Salinity of ocean, Land and water distribution.
2. Tides, waves, ocean currents and oceanic resources.

Suggested Readings:

1. Barry, RG and Chorley R.J., Atmosphere, Weather and Climate, Routledge, 1998.
2. Critchfield, H., General Climatology, Prentice-Hall of India, 2002.
3. King, C. Oceanography for Geographers, Edward Arnold, London, 1975.
4. Trewartha, GT: An Introduction to Climate, Mc-Graw Hill, New York, 1981.
5. Trewartha, G.T., The Earth's Problems Climates, University of Wisconsin Press, USA.

Paper – 302 Representation of Climatic Data

Maximum Marks: 100

Time: 3 Hours

Distribution of Marks

Exercises = 80

Record File = 10

Viva-voce = 10

Note: There will be four questions in all and candidate has to attempt three exercises selecting at least from each unit.

1. Collection of Climatic data.
2. Representation of temperature and rainfall.
 - (i) Line and Bar Graph – 1 Exercise.
 - (ii) Distribution of temperature (180 therms) – 1 Exercise.
 - (iii) Distribution of rainfall (180 hytes) – 1 Exercise.
 - (iv) Hythergraph - 1 Exercise.
3. Climograph (wet and dry places) - 2 Exercise.
4. Weather map Interpretation (January & July) - 2 Exercise.

Suggested Readings:

1. Singh, R.L., 1979. Elements of Practical Geography, Kalyani Publisher, New Delhi.
2. Gregory S. 1963. Statistical Methods and the Geography, Longman, London.
3. Khan, A.A. 1996. Text Book of Practical Geography, Concept, New Delhi,.
4. Lawarence, GRP1968. Cartographic Methods, Methuen, London,.
5. Monkhouse, F.J. and Wilkinson, H.R1994. Maps and Diagrams, Methuen, London,
6. Pal. S.K. 1998: Statistics for Geoscientist- Techniques and Applications, Concept Publication, New Delhi,.
7. Sarkar, A.K 1997: Practical Geography-A Systematic Approach, Orient Longman, Calcutta.