B.A. First Year

Subject: Geography

Paper I - Physical Geography

Unit – I

a) Definition and scope of physical geography.
b) Origin of the earth - Tidal Hypothesis of James Jeans and Big Bang theory.
c) Interior of the earth.
d) Origin of the continent and oceans:- Wegner's theory of Continental drift and Plate tectonics.
e) Theories of mountain building:- Geosynclines Organ theory of Kober and Plate tectonic theory.

Unit – II

a) Isostacy :- Concept and Views of Airy and Pratt.
b) Diastrophism: - Faults & folds.
c) Weathering: - Physical, Chemical and Biological.
d) Drainage pattern and Cycle of erosion :- Davis & Penck.
e) Landforms: - Fluvial, coastal and arid.

Unit – III

a) Composition and structure of the atmosphere.
b) Atmospheric temperature: – Isolation and heat budget.
c) Atmospheric pressure :- Vertical and horizontal distribution of air pressure.
d) Winds: - Planetary, periodic and local winds.
e) Jet stream.

Unit – IV

a) Air masses: - Source region and classification of air masses.
b) Fronts :- Front genesis and frontolysis , Type of fronts.
c) Cyclones :- Tropical and temperate cyclones.
d) Anti cyclones.
e) Climatic classification by Koeppen.

Unit – V

a) Reliefs of the ocean basins - Bottom reliefs of the Indian ocean.
b) Distribution of temperature and Salinity of oceans.
c) Ocean currents : - Atlantic ocean and Pacific ocean currents.
d) Tides :- Type and theory of origin (Progressive wave and Stationary Wave theory.
e) Coral reefs :- Conditions of growth, types and origin according to Darwin and Murray.

Suggested Readings:

1. Dayal, P., A Text book of Geomorphology, Shukla Book Depot, Patna, 1996.
2. Dury, G. H., The Face of the Earth, Penguins, 1980.
3. Ernst, W.G., Earth Systems: Process and Issues, Cambridge University Press 2000.
4. ICSSR, A Survey of Research in Physical Geography, Concept, New Delhi, 1983.
5. Kale, V. and Gupta, A., Elements of Geomorphology, Oxford University Press, Calcutta, 2001.
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8. Sharma, H. S., Tropical Geomorphology, Concept, New Delhi, 1987.
9. Singh, S., Geomorphology, Prayag Pustakalaya, Allahabad, 1998.
10. Small, R. J., The Study of Landforms, McGraw Hill, New York, 1985.
11. Sparks, B. W., Geomorphology, Longmans, London, 1960.
12. Steers, J. A., The Unstable Earth: Some Recent Views in Geography, Kalyani Publishers, New Delhi, 1964.
13. Strahler, A. N., Environmental Geo-Science, Hamilton Publishing, Santa Barbara, 1973.
14. Strahler, A. N. and A. H. Strahler, Modern Physical Geography, John Wiley & Sons, 1992.

15. Summerfield, M. A., Global Geomorphology, Longman, 1991
16. Thornbury, W. D., Principles of Geomorphology, Wiley Eastern, l969.
17. Wooldridge, S. W. and R. S. Morgan, The Physical Basis of Geography: An Outline of Geomorphology, Longman Green & Co., London, 1959.
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19. Barry, R. G. and R. J. Chorley, Atmosphere, Weather and Climate, Routledge, 1998.
20. Critchfield, H., General Climatology, Prentice-Hall, New York, 1 975.
21. Das, P. K., The Monsoons, National Book Trust, New Delhi, 1968.
22. Lydolph, Paul E., The Climate of the Earth, Rowman and Allanheld, Totowa, N. J., 1985.
23. Mather, J. R., Climatology, McGraw Hill, New York, 1974.
24. Patterson, S., Introduction of Meteorology, McGraw Hill Book Co., London, 1 969.
25. Stringer, E. T., Foundation of Climatology, Surjeet Publications, Delhi, 1982.
26. Trewartha, G. T., An Introduction to Climate, International Students Edition, McGraw Hill, New York, 1980.
27. Anikouchine, W. A. and R. W. Sternberg, The World Oceans: An Introduction to Oceanography, Englewood Cliffs, N. J. 1973.
28. Gerald, S., General Oceanography: An Introduction, John Wiley & Sons, New York, 1980.
29. Garrison, T., Oceanography, Wadsworth Co. USA, 1998.
30. King, C. A. M., Beaches and Coasts, E. Arnold, London, 1972.
31. King, C. A. M., Oceanography for Geographers, E. Arnold, London, 1975.
32. Sharma, R. C. and M. Vatel, Oceanography for Geographers, Chetnya Publishing House, Allahabad, 1970.
33. Shepard, F. P., Submarine Geology, Harper & Sons, New York, 1948.
34. Thurman, H. B., Introductory Oceanography, Charles Webber E. Merril Publishing Co., 1984.
35. Weisberg, J. and Howard, Introductory Oceanography, McGraw Hill Book Co., New York, 1976.
36. सविन्द्रसिंह : भौतिक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, 1997
37. शर्मा एच.एस. : ''भौतिक भूगोल'' पंचशील प्रकाशन, जयपुर
38. चतुर्भुज मामोरिया एव जैन : भौतिक भूगोल एवं जीव मण्डल, साहित्य भवन आगरा, 1996
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41. तिक्खा, रामनाथ : भौतिक भूगोल, केदारनाथ रामनाथ, मेरठ
42. तिवारी, ए. के. : जलवायु विज्ञान के मूल तत्व, राज.हिन्दी ग्रन्थ अकादमी, जयपुर
43. नेगी, बी. सी. : जलवायु विज्ञान तथा समुद्र विज्ञान, केदारनाथ रामनाथ, मेरठ

B.A. First Year
Subject: Geography
Paper: II Human Geography

Unit – I

a) Definition and scope of Human geography.
b) Its relation with other social sciences.
c) Schools of Human geography: - Determinism, Possibilism and Neo – Determinism.
d) Concept of Man – Environment relationship.
e) Fundamental principles of Human geography: Principles of activities, Principle of areal differentiation, Principle of terrestrial unity.

Unit – II

a) Stages of evolution of man
b) Races of mankind: - criteria of classification according to G. Taylor
c) Classification and distribution of races according to G. Taylor
d) Factors of evolution of human races
e) Migration zone theory by Griffith Taylor