BA FIRST YEAR
GEOGRAPHY

TDC I Year	Paper I	Physical Geography
	Paper II	Human Geography
	Practical	Cartography-I

Notes:

- Each theory paper will be of 70 marks each with minimum pass marks of 28
- Each practical will be of 60 marks with minimum pass marks of 23.
- Teaching hours for each theory paper and practical will be three hours per week.
- Practical batch will comprise of 25 students in one batch.
- Use of map stencils (outline of political boundaries only) and simple function calculators are allowed in the examination.
- Each theory paper of three hour duration will be divided into five units and questions will be asked as per following scheme:

Sections	Questions		Marks	Distribution of Questions
	To be Asked	To be Attempted		
1. Very Short (20-50 Words Answers)	10	10	20	Proportionately from each Unit with internal choice
2. Short Answers from each Unit with internal choice (250 words)	10	5	20	
3. Analytic/Descriptive Answers (500 words)	5	2	30	
Total	25	17	70	

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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, solar system.
c) Interior of the earth.
d) Origin of the continents and oceans:- Wegner's theory of Continental drift and Plate tectonic theory.
e) Isostasy: - Concept and Views of Airy and Pratt.

Unit – II

a) Diastrophism: - Faults & folds.
b) Weathering: - Physical, Chemical and Biological.
c) Cycle of erosion: - Views of Davis & Penck.
d) Landforms: - Fluvial, Glacial and coastal
e) Landforms: - Karst 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) Humidity, hydrological cycle and types of rainfall.
d) Cyclones: - Tropical and temperate 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, Pacific and Indian 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:

- Hess, Derrel, Physical Geography: A Landscape Appreciation, PHI Learning Pvt. Ltd., New Delhi
- Ernst, W.G., Earth Systems: Process and Issues, Cambridge University Press 2000.

- Kale, V. and Gupta, A., Elements of Geomorphology, Oxford University Press, Calcutta, 2001.
- Monkhouse, F. J., Principles of Physical Geography, Hodder and Stoughton, London, 1960.
- Pitty, A., Introduction to Geomorphology, Methuen, London, 1974.
- Singh, S., Geomorphology, Prayag Pustakalaya, Allahabad, 1998.
- Steers, J. A., The Unstable Earth: Some Recent Views in Geography, Kalyani Publishers, New Delhi, 1964.
- Strahler, A. N. and A. H. Strahler, Modern Physical Geography, John Wiley & Sons, 1992.
- Thornbury, W. D., Principles of Geomorphology, Wiley Eastern, l969.
- Critchfield, H., General Climatology, Prentice-Hall, New York, 1 975.
- Lydolph, Paul E., The Climate of the Earth, Rowman and Allanheld, Totowa, N. J., 1985.
- Mather, J. R., Climatology, McGraw Hill, New York, 1974.
- Trewartha, G. T., An Introduction to Climate, International Students Edition, McGraw Hill, New York, 1980.
- Anikouchine, W. A. and R. W. Sternberg, The World Oceans: An Introduction to Oceanography, Englewood Cliffs, N. J. 1973.
- Gerald, S., General Oceanography: An Introduction, John Wiley & Sons, New York, 1980.
- Garrison, T., Oceanography, Wadsworth Co. USA, 1998.
- King, C. A. M., Oceanography for Geographers, E. Arnold, London, 1975.
- Thurman, H. B., Introductory Oceanography, Charles Webber E. Merril Publishing Co., 1984.

- सिंह, सविन्द्र, भौतिक भूगोल, वसुन्धरा प्रकाशन गोरखपुर
- सिंह, सविन्द्र, भू आकृति विज्ञान का स्वरूप, प्रयाग पुस्तक भवन, इलाहाबाद
- सिंह, सविन्द्र, पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद
- सिंह, सविन्द्र, समुद्र विज्ञान, प्रवालिका पब्लिकेशन्स, इलाहाबाद
- सिंह, सविन्द्र, जलवायु विज्ञान, प्रवालिका पब्लिकेशन्स, इलाहाबाद
- शर्मा, डॉ. जे. पी., भूआकृति विज्ञान, रस्तोगी पब्लिकेशन्स, मेरठ
- शर्मा, एच.एस., शर्मा, एन. एल., मिश्रा, आर.एन. भौतिक भूगोल, पंचशील प्रकाशन, जयपुर
- हुसैन, माजिद, भौतिक भूगोल, रावत पब्लिकेशन्स, नई दिल्ली
- बंसल, डॉ. सुरेश चन्द्र, चौहान, डॉ. पंकज कुमार, भौतिक भूगोल, मीनाक्षी प्रकाशन, मेरठ
- लाल, डी. एस., जलवायु एवं समुद्र विज्ञान, शारदा पुस्तक भवन, इलाहाबाद
- चतुर्भुज मामोरिया एव जैन : भौतिक भूगोल एवं जीव मण्डल, साहित्य भवन आगरा
- चौहान, वीरेन्द्र सिंह : भौतिक भूगोल, रस्तोगी पब्लिकेशन्स, मेरठ
- उपाध्याय एल. एन. : भौतिक भूगोल, राज. हिन्दी ग्रन्थ अकादमी, जयपुर
- तिक्खा, रामनाथ : भौतिक भूगोल, केदारनाथ रामनाथ, मेरठ
- तिवारी, ए. के. : जलवायु विज्ञान के मूल तत्व, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर
- नेगी, बी. सी. : जलवायु विज्ञान तथा समुद्र विज्ञान, केदारनाथ रामनाथ, मेरठ
- सिसौदिया, डॉ. एम. एस., जलवायु एवं समुद्र विज्ञान, कैलाश पुस्तक सदन, भोपाल