Cluster University Srinagar

ENTRANCE TEST SYLLABUS FOR ADMISSION TO 5-YEAR INTEGRATED, 3-YEAR HONOR'S & PROFESSIONAL PROGRAMMES SESSION 2019

SYLLABUS CLASS XI

Code: 215

GEOGRAPHY

Maximum Marks: 100 Theory: 70 marks Time: 3 hours Practical: 30 marks

A. Fundamentals of Physical Geography

Unit I: Geography as a Discipline

5 marks

- Geography as an integrating discipline, as a science of spatial attributes;
- Branches of geography, importance of physical geography

Unit II: The Earth

5 marks

 Origin and evolution of the earth; interior of the earth Wegener's continental drift theory and plate tectonics; Earthquakes and volcanoes;

Unit III: Land Forms

6 marks

- Rocks and minerals major types of rocks and their characteristics;
- Land forms and their evolution
- Geomorphic processes-weathering, mass wasting, erosion and deposition; soils – formation

Unit IV: Climate

11 marks

- Atmosphere- compositions and structure, elements of weather and climate;
- Insolation-angle of incidence and distribution; heat budget of the earth –
 heating and cooling of atmosphere (conduction, convection, terrestrial
 radiation, advection): temperature factors controlling temperature;
 distribution of temperature-horizontal and vertical; inversion of temperature

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- Pressure- pressure belts; winds-planetary seasonal and local, air masses and fronts; tropical and extra tropical cyclones;
- Precipitation evaporation; condensation dew, frost, fog, mist and cloud; rainfall types and world distribution;
- World climates-classification (Koeppen), greenhouse effect, global warming and climatic changes.

Unit V: Water (Oceans)

4 Marks

- Hydrological Cycle;
- Oceans submarine relief; distribution of temperature and salinity;
 movements of ocean water waves, tides and currents.

Unit VI: Life on the Earth

4 Marks

 Biosphere - importance of plants and other organisms; biodiversity and conservation; ecosystems, bio-geochemical cycle, and ecological balance.

B. India-Physical Environment

Unit VII: Introduction

5 Marks

Location – space relations and India's place in the world.

Unit VIII: Physiography

7 Marks

- Structure and Relief:
- Drainage systems: concept of water sheds; the Himalayan and the Peninsular;
- Physiographic divisions.

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Unit IX: Climate, Vegetation and Soil

14 Marks

- Weather and Climate spatial and temporal distribution of temperature, pressure, winds and rainfall; Indian monsoons: mechanism, onset and variability – spatial and temporal; climatic types;
- Natural vegetation –forest types and distribution; wild life; conservation;
 biosphere reserves;
- Soils major types (ICAR's classification) and their distribution, soil degradation and conservation.

Unit X: Natural Hazards and Disasters: Causes, Consequences and Management (One case study to be introduced for each tropic) 9 Marks

- Floods and droughts
- · Earthquakes and Tsunami
- Cyclones
- Landslides

C Practical Work

Unit I: Fundamentals of Maps

- Maps types; scales –types; construction of linear scales, measuring distance finding direction and use of symbols;
- Latitude, Longitude and time;
- Map projection typology, construction and properties of conical with one standard parallel and Mercator's projection.

Unit II: Topographic and Weather Maps

30 Marks

Study of topographic maps (1:50,000 or !;25,000, Survey of India Maps):
 contour cross section and identification of landforms – slopes hills, valleys,
 waterfalls, cliff; distribution of settlements;

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GEOGRAPHY

Maximum Marks : 100

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Practicals: 30 Marks

A. Fundamentals of Human Geography

Marks 35

Unit I: Human Geography: Nature and Scope

Marks 03

Unit II: People

Marks 05

- Population of the world distribution, density and growth;
- Population change-spatial patterns and structure; determinants of population change;
- · Age-sex ratio; rural-urban composition;
- Human development concept; selected indicators, international comparisons.

Unit III: Human Activities

Marks 10

- Primary activities concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agriculture and allied activities – some examples from selected countries;
- Secondary activities concept; manufacturing: agro-processing, household, small scale, large scale; people engaged in secondary activities – some examples from selected countries;
- Tertiary activities concept; trade, transport and communication; services; people engaged in tertiary activities – some examples from selected countries;
- Quaternary activities concept; knowledge based industries; people engaged in quaternary activities – some examples from selected countries.

Unit IV: Transport, Communication and Trade

Marks 10

- Land transport roads, railways rail network; trans-continental railways;
- Water transport inland waterways; major ocean routes;
- Air transport Intercontinental air routes;
- · Oil and gas pipelines;
- Satellite communication and cyber space;
- International trade Basis and changing patterns; ports as gateways of international trade, role of WTO in International trade.

Unit V: Human Settlements

Marks 05

 Settlement types – rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries. Unit VI: Map work on identification of features based on above units on the outline Political map of world.

Marks 02

B. India: People and Economy

Marks 35

Unit VII: People

Marks 05

- Population distribution, density and growth; composition of population: linguistic, sex and religious; rural-urban population change through time – regional variations; occupations.
- Migration: international, national causes and consequences;
- Human development selected indicators and regional patterns;
- Population, environment and development.

Unit VIII: Human Settlements

Marks 04

- Rural settlements types and distribution;
- Urban settlements types, distribution and functional classification.

Unit IX: Resources and Development

Marks 12

- Land resources general land use; agricultural land use major crops; agricultural development and problems, common property resources;
- Water resources availability and utilization irrigation, domestic, industrial and other
 uses; scarcity of water and conservation methods rain water harvesting and watershed
 management (one case study related with participatory watershed management to be
 introduced);
- Mineral and energy resources metallic and non-metallic minerals and their distribution; conventional and non-conventional energy sources;
- Industries types and distribution; industrial location and clustering; changing pattern of selected industries – iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact of liberalization, privatization and globalization on industrial location;
- Planning in India target area planning (case study); idea of sustainable development (case study).

Unit X: Transport, Communication and International Trade

Marks 07

- Transport and communication roads, railways, waterways and airways; oil and gas pipelines; national electric grids; communication networkings – radio, television, satellite and internet;
- International trade changing pattern of India's foreign trade; seaports and their hinterland and airports.

Unit XI: Geographical Perspective on Selected Issues and Problems (One case study to be introduced for each topic)

Marks 04

Environmental pollution; urban-waste disposal;

- Urbanization-rural-urban migration; problem of slums;
- Land Degradation.

Unit XII: Map work on locating and labeling of features based on above units on the outline Political map of world.

Marks 03

C. Practical Work

Marks 30

Internal assessment: 10 marks External assessment:20 marks

Unit I: Processing of Data and Thematic Mapping

Marks 10

- · Sources of data;
- Tabulating and processing of data; calculation of averages, measures of central tendency, deviation and rank correlation;
- Representation of data construction of diagrams: bars, circles and flowchart; thematic maps; construction of dot; choropleth and isopleth maps.
- Use of computers in data processing and mapping.

Unit II: Field Study Marks 07

Field visit and study: map orientation, observation and preparation of sketch; survey on any one of the local concerns; pollution, ground water changes, land use and land- use changes, poverty, energy issues, soil degradation, impact of floods and drought, catchment area of school, Market survey and Household survey (any one topic of local concern may be taken up for the study; observation and questionnaire survey may be adopted for the data collection; collected data may be tabulated and analysed with diagrams and maps.

Unit II: Practical Record Book and Viva-voce.

Marks 03