Section - II

Answer any *two* questions. 10×2=20

3. Write about the importance of ozone layer. Explain the factors affecting ozone depletion. 5+5=10

4. Classify different types of air mass and explain their characteristics. 5+5=10

5. Give an account of the vertical distribution of temperature in the atmosphere. Under what conditions do temperature distribution in the lowest stratum of the atmosphere gets disturbed ? 7+3=10

6. Distinguish between warm front and cold front. Discuss the conditions favourable for the development of a tropical cyclone. Discuss, in brief, the origin of tropical cyclones. 2+3+5=10

Section - III

Answer *all* questions. 2×5=10

7. Write short notes on the following :

(a) La Nina.

(b) Relative humidity.

(c) Geostrophic wind.

(d) Horse Latitude.

(e) Heat Equator.

P - III (1+1+1) H/15 (N+O)

2015

GEOGRAPHY (Honours)

Ninth Paper

[Settlement and Regional Development]

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

A. Settlement Geography

(Marks - 30)

Section - I

Answer any *one* question. 10×1=10

1. What is urban agglomeration ? Briefly explain about the factors affecting urban agglomerations in India. 3+7=10

2. Assess the importance of site and situation in controlling morphology and spatial distribution of urban settlements. 10

Section - II

Answer any *four* questions. 4×4=16

3. Write about the census definition of Indian cities. 4

4. Differentiate between Concentric Zone Theory and Sector Theory. 4

P.T.O.

5. What is CBD ? Mention about its functions. 2+2=4

6. Explain how does 'situation' affects location of rural settlements. 4

7. Distinguish between clustered and nodal settlement. 4

8. Discuss the content of settlement geography. 4

Section - III

Answer *all* questions.

9. Write short notes on the following : 2×2=4

(a) Green Belt

(b) Necropolis.

B. Regional Development

(Marks - 20)

Section - I

Answer any *one* question. 10×1=10

1. Distinguish between formal and functional region. Describe about the measures for the development of backward regions. 5+5=10

2. Define the term 'regional disparity'. Discuss the different indicators used to measure regional disparity in India. 2+8=10

Section - II

Answer any *one* question. 4×1=4

3. What are the indicators of development ? 4

4. Write about the demarcation of NCR. 4

5. What do you mean by HDI ? Discuss the indicators of HDI. 1+3=4

Section - III

Answer *all* questions.

6. Write short notes : 2×3=6

(a) PQLI

(b) MGNREGA

(c) Planning Region.

[Old Syllabus]

Section - I

Answer any *one* question. 20×1=20

1. What is insolation ? Describe about the factors affecting insolation. 4+16=20

2. What is 'Monsoon' ? Discuss the theories on the genesis of monsoon over the Indian sub continent and explain why the intensity and amount of rainfall vary from year to year. 2+12+6=20

P.T.O.

2. Define Wet land. Explain the significance of wetlands. Identify the causes behind wetland degradation. 4+8+8=20

Section - II

Answer any *two* questions. 10×2=20

3. Distinguish between tropical evergreen biome and savannah biome. 10

4. Briefly discuss about an ideal soil profile with its suitable factors of formation. 10

5. Assess the importance of biodiversity. 10

6. Make a short assessment on energy flow in the terrestrial ecosystem. 10

Section - III

Answer *all* questions.

7. Write short notes on the following : 2×5=10

(a) Skeleton soil

(b) Bio-diversity hotspot

(c) Food chain

(d) Ecotone

(e) Eluviation.

P - III (1+1+1) H/15 (N+O)

2015

GEOGRAPHY (Honours)

Tenth Paper

[Soil Geography and Bio Geography]

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

Group - A

Soil Geography

(Marks - 30)

Section - I

Answer any *one* question. 10×1=10

1. Discuss with suitable illustration about the impact of soil texture and soil structure on fertility of soil. What is meant by laterization ? 8+2=10

2. Give an account of the processes and mechanisms of soil erosion. 10

P.T.O.

5/54 - 1200

Section - II

Answer any *four* questions. (200-250 words) 4×4=16

3. Assess the role of time in the formation of soil. 4

4. Why is 'soil' known as a dynamic body ? 4

5. What are the characteristics of chernozem soil ? 4

6. Explain the term Humification. 4

7. Explain the scope of soil geography in present day context. 4

8. Discuss the importance of soil pH in soil fertility. 4

Section - III

9. Write short notes on the following (80-100 words) : 2×2=4

(a) Soil Catena.

(b) Natural nutrification of soil.

Group - B

Biogeography

(Marks - 20)

Section - I

Answer any *one* question (600-700 words) 10×1=10

10. Make a comparative analysis on carbon bio-geochemical cycle and oxygen bio-geochemical cycle. 5+5=10

11. Discuss the scope and significance of bio-geography as a scientific arena of knowledge. Interpret the suitable factors affecting growth and development of natural vegetation in tropical rainforest region. 6+4=10

Section - II

Answer any *one* question (200-250 words) 4×1=4

12. Mention the significance of biodiversity. 4

13. Attempt a short note on food chain in savannah and forest region. 4

Section - III

14. Write a short note on the following (80-100 words) : 2×3=6

(a) Ecocline

(b) Pond ecosystem

(c) Habital Ecology.

[Old Syllabus]

Section - I

Answer any *one* question. 20×1=20

1. What are the different factors of soil formation ? Analyze them with suitable examples. 20

P.T.O.

6. Write the geomorphological characteristics of the Himalayan Zone. 10

Section - III

Answer *all* the questions.

7. Write short notes : 2×5=10

(a) Retreating monsoon

(b) Global village

(c) Mango shower

(d) 'Kankar'

(e) Mineral oil.

P - III (1+1+1) H/15 (N+O)

2015

GEOGRAPHY (Honours)

Eleventh Paper

[Elevation Geography of India]

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

Section - I

Answer any *two* questions within 700 words. 10×2=20

1. What is decadal variation of population ? Critically assess the population problems in India. 2+8=10

2. Write about the evolution of Brahmaputra river system. Mention any two geomorphic characteristics of Narmada river. 7+3=10

3. Describe the climatic regions of India according to Dr. Wladimir Koppen. 10

4. Demarcate the zones of 'regur' and alluvium soils and write their importance in Indian agriculture. 4+6=10

P.T.O.

5/55 - 1200

Section - II

Answer any *five* questions within 250 words. 4×5=20

5. Write on the geomorphological characteristics of Peninsular India. 4

6. Analyse the role of jet streams on origin of Indian monsoon. 4

7. What are the positive impacts of green revolution in India ? 4

8. What are the major features of globalization ? 4

9. Assess the role of shifting agriculture on forest depletion. 4

10. Discuss the changing trend of location of automobile industry. 4

11. Analyse the problems of DVC multipurpose river valley project. 4

12. Discuss the problems of jute industry in Hooghli Industrial belt. 4

Section - III

Answer *all* the questions within 100 words. 2×5=10

13. Write short notes on :

(a) Agro-forestry

(b) Khadar

(c) Antecedent stream

(d) Tarai

(e) Deccan Trap.

[Old Syllabus]

Section - I

Answer any *one* question. 20×1=20

1. Classify natural vegetation of India following champion. Analyse the causes of deforestation in India. 15+5=20

2. Analyse the role of labour, market, raw material and transport facilities on location of cotton textile industry in India. What are the problems of cotton textile industry in India ? 16+4=20

Section - II

Answer any *two* questions. 10×2=20

3. Write a note on new agricultural policy of India. 10

4. Discuss the different types of rainfall which occurs in India. 10

5. Divide India into different population-density zones and explain the causes of variation of population density. 4+6=10

P.T.O.

5. Differentiate space from location. Make a typology of space in geography. 3+7=10

6. Narrate the widening scope of Geography. 10

Section - III

Answer *all* questions.

7. Write short notes on the following : 2×5=10

(a) Determinism

(b) Primary data

(c) Random sampling

(d) Sources of data

(e) NSSO.

P - III (1+1+1) H/15 (N+O)

2015

GEOGRAPHY (Honours)

Twelfth Paper

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

(Geographical Thought)

Section - I

Answer any *two* questions. 10×2=20

1. Discuss about the scope and evolution of geography from the ancient period. 4+6=10

2. What do you mean by man-environment relationship ? What are the basic principles of possibilism ? 5+5=10

3. Critically discuss the Determinism theory. What do you mean by neo-determinism ? 7+3=10

4. Define Radical Geography. What are the relevance of Radical Geography in geographical evolution ? 5+5=10

P.T.O.

5/56 - 1200

Section - II

Answer any *five* questions. 4×5=20

5. Discuss about the ecological approach in geography. 4

6. What are the differences between formal and functional region ? 4

7. Elaborate the concept of space and time. 4

8. What do you mean by dualism in geography ? 4

9. What are the merits and demerits of Quantitative revolution ? 4

10. What are the main concept of Behavioural Geography ? 4

11. What are the basic concept of German School of thought ? 4

12. What are the main components of Welfare geography ? 4

Section - III

Answer *all* questions.

13. Write short notes on the following : 2×5=10

(a) Absolute space.

(b) Systematic approach of geography.

(c) Dichotomy in Geography.

(d) Positivism.

(e) Karl Ritter.

[Old Syllabus]

(Nature and Methodology in Geography)

Section - I

Answer any *one* question. 20×1=20

1. Discuss man-environment relationship with reference to evolution of geographical thoughts. What do you understand by the term regional differentiation ? 17+3=20

2. Define data. Analyze different types of data collection methods with their merits and demerits. Mention the use of instrumental survey in geographical data collection. 2+14+4=20

Section - II

Answer any *two* questions. 10×2=20

3. Trace the dualism between regional and systematic approach in geographical enquiry. 10

4. Differentiate questionnaire from schedule. Analyse the merits and demerits of sample survey. 2+8=10

P.T.O.

2. Explain the meaning of term river erosion. What are the main types of river erosion ? Describe how different types of river erosion control development and widening of stream channel. 2+4+14=20

Section - B

Answer any *two* questions. 10×2=20

3. Write a note on transverse profile of a stream. 10

4. What is flood plain ? Describe how flood plains are formed. Describe the major features associated with flood plain with diagram. 2+4+4=10

5. Explain with example the effect of dams and embankment on river action. 10

6. What is runoff ? How does it affect hydrological cycle ? 10

Section - C

Answer *all* the questions.

7. Write short notes on : 2×5=10

(a) Alluvial fall.

(b) River regime.

(c) Incised meander.

(d) DVC.

(e) Strike Valley

P - III (1+1+1) H/15 (O)

2015

GEOGRAPHY (Honours)

Fourteenth Paper

[Optional : Regional Planning, Urban Geography, Population Geography, Cartography, Agricultural Geography, River Geography]

[Old Syllabus]

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.

REGIONAL PLANNING

Section - A

Attempt *one* question. 20×1=20

1. Discuss the major problems of rural development in West Bengal. Distinguish between growth and development. 14+6=20

2. Discuss the indicators of Regional imbalances. Discuss the central theme of Growth pole theory. 12+8=20

P.T.O.

5/58 - 1200

Section - B

Attempt *two* questions. 10×2=20

3. Discuss in short about the principles and techniques of regional planning. 10

4. Define integrated rural area development. Explain the role of "Pradhanmantri Gramin Sadak Yojna" in case of planning of rural transport. 3+7=10

5. Briefly discuss about the Losch's Theory in the light of market centers. 10

6. Discuss the objective of District level planning. What are the demerits of the same ? 6+4=10

Section - C

Attempt *all* questions.

7. Write short notes on the following : 2×5=10

(a) Grass-Root Governance.

(b) Panchyet Samiti.

(c) Landuse Planning.

(d) JNURM.

(e) Isolated State.

URBAN GEOGRAPHY

Section - A

Answer any *one* question. 20×1=20

1. Explain internal structure of city in the light of Concentric Zone theory. Distinguish statutory town from Non-Statutory Town. 16+4=20

2. Define conurbation. Discuss the factors leading to growth of conurbation in different parts of the world. Compare and contrast urban agglomeration and conurbation. 3+13+4=20

Section - B

Answer any *two* questions. 10×2=20

3. What do you mean by Rural-Urban Fringe ? How does it evolve ? What are the advantages and disadvantages of the residents in this region ? 3+3+4=10

4. What are the typical characteristics of urban growth in India ? Trace the growth of urbanization in India during the British period. 5+5=10

5. Explain the concept of Primate City. State the conditions in which decay of Urban core takes place. 6+4=10

P.T.O.

5/58 - 1200

6. Explain Rank-size Rule in the light of settlement hierarchy. Discuss the criteria adopted by census of India to identify urban centres. 5+5=10

Section - C

Attempt *all* questions.

7. Write short notes on the following : 2×5=10

(a) C. B. D.

(b) Megalopolis

(c) Privatization

(d) Break-O-Bulk town

(e) Green City.

POPULATION GEOGRAPHY

Section - A

Answer any *one* question. 20×1=20

1. What are the different measures of population density ? Enumerate causes and consequences of unequal distribution of population in the World. 4+16=20

2. How does the age-structure affect the growth of population ? Why does the age-sex structure of the developed countries differ from that of developing countries ? Give an account of census as source of population data. 8+8+4=20

Section - B

Answer any *two* questions. 10×2=20

3. What are the determinants of population growth of a country ? Differentiate Pro-natal and Ante-natal population policy. 7+3=10

4. Explain causes and consequences of Rural-Urban migration. What are the remedies of this type of migration ? 8+2=10

5. What do you mean by population geography ? Explain the interdisciplinary nature of population studies with suitable examples. 2+8=10

6. Discuss the determinants of mortality. Why infant mortality is usually high in developing countries ? 6+4=10

Section - C

Answer *all* questions.

7. Write short notes on the following : 2×5=10

(a) Transhuman.

(b) Zero Population Growth.

(c) Fecundity.

(d) Morbidity.

(e) Malnutrition.

P.T.O.

5/58 - 1200

CARTOGRAPHY

Section - A

Answer any *one* question. 20×1=20

1. (a) What is meant by a traverse survey ?

(b) The following bearing were observed in running a traverse with prismatic compass. Find out the correct bearings and plot the traverse.

Line	Forward bearing	Back bearing	Dist. in meters
AB	80°45'	260°35'	64.5
BC	348°30'	168°30'	50.0
CD	259°30'	79°45'	48.0
DA	188°30'	8°15'	49.5

(c) Describe the 'intersection method' of surveying by a plane table. 3+12+5=20

2. Draw a neat graticule on Bonne's Projection with the following extension :

Parallels — 30°N - 70°N (interval 10°)

Meridians — 160°W - 140°E (interval 10°)

R. F. — 1 : 125000000 20

Section - B

Answer any *two* questions. 10×2=20

3. What is perspective projection ? Explain the derivation of Simple Conical projection with two standard projection. 2+8=10

4. Measure height of a tree of the following information —

Middle Stedia Reading — 1.480 m

Upper Stedia Reading — 1.580 m

Lower Stedia Reading — 1.360 m

Angle of elevation from the station A is 15°30'.

Plot the diagram with suitable scale. 10

5. What are the differences between orthomorphic projection and Equal-Area Projection ?

Write about the properties of two standard parallel conical projection. 4+6=10

6. What is meant by Aerial photography ? Write about the modem significance of the study of Aerial Photography. 3+7=10

P.T.O.

5/58 - 1200

Section - C

Answer *all* questions.

7. Write short notes on the following : 2×5=10

(a) Source of light.

(b) Line of Collimation.

(c) True and magnetic bearing.

(d) Air photo.

(e) Graticule.

AGRICULTURAL GEOGRAPHY

Section - A

Answer any *one* question. 20×1=20

1. Discuss the geo-economic conditions under which intensive farming thrive in different parts of the World. 20

2. Define mixed farming and bring out its salient features. 20

Section - B

Answer any *two* questions. 10×2=20

3. What do you know about the market oriented agriculture ? 10

4. Describe the impact of soil erosion and degradation on agriculture. 10

5. What do you know about dry farming ? 10

6. What do you understand by land capability model ? Explain the land capability assessment of USDA Method. 3+7=10

Section - C

Answer *all* questions.

7. Write short notes on the following : 2×5=10

(a) FAO.

(b) I.R.D.P.

(c) Green revolution.

(d) Horticulture.

(e) Farm village.

RIVER GEOGRAPHY

Section - A

Answer any *one* question. 20×1=20

1. What do you mean by basin profile ? Explain the types and shape of basin profile. How erosional characteristics of the river or the stage of geomorphic development of river valley are reflected in shape of the basin profile ? Explain with illustration. How does longitudinal profile indicate the graded condition of a river ? 2+4+10+4=20

P.T.O.