

2016

GEOGRAPHY (Honours)

Fifth Paper

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

Group - A

(Geography of Resources)

(Marks : 30)

Section - I

Answer any *one* question.

10×1=10

1. What do you understand by resources ? Give an account on the recent developments and trends of the renewable energy sectors.

2+8=10

2. Evaluate the environmental approach in resource perceptions with suitable illustrations.

10

Section - II

Answer any *four* questions.

4×4=16

3. Assess the role of inland fishing in the economy of a developing country.

4

4. What makes forestry economically viable ?

4

P.T.O.

5. Explain three 'R' in the conservation of the environmental aspect of resources. 4

6. Discuss about the distribution of Gondwana coalfields in India. 4

7. Assess the importance of resource utilization in relation to environmental quality. 4

8. Explain the role and importance of 'OPEC' in the international market. 4

Section - III

Answer *all* questions.

2×2=4

9. (a) Nuclear energy.

(b) Man-land Ratio.

Group - B

(Geography of Economic Activities)

(Marks : 20)

Section - I

Answer any *one* question.

10×1=10

10. What are the characteristics landforms associated with agricultural economy ? How do agricultural activities of developing countries differ from that of developed countries ?

4+6=10

11. Elaborate the development of cotton textile industry in India since 1950 onwards. What are the causes of dispersion of cotton textile industry in U.S.A. ? 6+4=10

Section - II

Answer any *one* question. 4×1=4

12. Discuss about the problems and prospects of food processing industries in West Bengal. 4

13. Distinguish between primary, secondary and tertiary economic activities with suitable examples. 4

Section - III

Answer *all* questions. 2×3=6

14. Write short notes on :

(a) Crop rotation.

(b) Petro-Chemical Industry and Urban Expansion.

(c) Downstream industries.

[Old Syllabus]

(Economic Activities)

Section - I

Answer any *one* question.

20×1=20

1. What do you mean by economic sector ? Discuss the nature and characteristics of primary, secondary and tertiary sectors of economic activities and also explain how are they interrelated to each other. Give an account of the industrial classification of workers as per the census of India.

3+12+5=20

2. Evaluate the environmental approach in resource perception with suitable illustration. Discuss the issues of industrial development and associated environmental pollution with examples from India.

5+15=20

Section - II

Answer any *two* questions.

10×2=20

3. Discuss the environmental significance of forest resources. What are the causes of forest resource depletion in India ?

4+6=10

4. Distinguish between the process of recycling and Substitution from the stand point of resource management.

What do you mean by resistance to resource ?

7+3=10

5. Assess the role of inland fishing in the economy of the developing country. What are the causes of under development in the sector of 'Sea-fishing in India ?

5+5=10

(5)

6. "Man plays a dual role as a producer or creator and a consumer or destroyer of resources — Explain. 10

Section - III

Answer *all* the questions.

2×5=10

7. Write short note on :

(a) OPEC.

(b) Pelagic and Demarsal fishes.

(c) White collar workers.

(d) IISCO.

(e) Plantation farming.

P- II (1+1+1)H/16(N+O)

2016

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[New Syllabus]

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(Geography of Resources)

(Marks : 30)

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Section - II

Answer any *four* questions. $4 \times 4 = 16$

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P.T.O.

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6. Discuss about the distribution of Gondwana coalfields in India. 4

7. Assess the importance of resource utilization in relation to environmental quality. 4

8. Explain the role and importance of 'OPEC' in the international market. 4

Section - III

Answer *all* questions.

2×2=4

9. (a) Nuclear energy.

(b) Man-land Ratio.

Group - B

(Geography of Economic Activities)

(Marks : 20)

Section - I

Answer any *one* question.

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(c) Downstream industries.

[Old Syllabus]

(Economic Activities)

Section - I

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20×1=20

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Answer *all* the questions.

2×5=10

7. Write short note on :

- (a) OPEC.
 - (b) Pelagic and Demarsal fishes.
 - (c) White collar workers.
 - (d) IISCO.
 - (e) Plantation farming.
-

P- II (1+1+1)H/16(N+O)

2016

GEOGRAPHY (Honours)

Seventh Paper

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

[New Syllabus]

(Climatology)

Section - I

Answer any *two* questions.

10×2=20

1. Elaborate the process of Ozone layer formation. Discuss the impact of the Industrial Revolution on Global Warming. What is Greenhouse effect ?

4+4+2=10

2. What do you understand by inversion of temperature ? Write an account of the different types of inversion of temperature.

2+8=10

3. Examine the relationship between atmospheric temperature, pressure and wind with special reference to the trade wind system. What do you mean by 'Anti-trade winds'?

8+2=10

4. What are jet streams and how do they affect the Indian Monsoon ? Point out the weather hazards associated with the Tropical cyclones.

2+5+3=10

P.T.O.

Section - II

Answer any *five* questions.

4×5=20

5. Write a note on Ionosphere. 4
6. Illustrate with diagram the genesis of fronts. 4
7. What are the causes of Global Warming ? 4
8. Which factors are believed to cause the air to subside in the latitudinal zone of 20 to 35 degrees ? 4
9. Speculate on how the changes in the average temperature of the troposphere might affect the altitude of the tropopause ? 4
10. Write a note on the Ozone layer depletion. 4
11. Write a note on the characteristics of the Indian Monsoon. 4
12. Write a short note on the chemical composition of the earth's atmosphere. 4

Section - III

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

- (a) Mixing Ratio
- (b) Surface Albedo
- (c) La Nina
- (d) ITCZ
- (e) Doldrum

[Old Syllabus]**Section - I**

Answer any *one* question. $20 \times 1 = 20$

1. What do you mean by the term urban hierarchy ?
Discuss the Central Place Theory in detail. $5 + 15 = 20$

2. Critically analyze the geopolitical idea of Mckinder in the light of his concept of pivot area and strategic heartland. Write an account on different political blocks of the world (Any 4). $12 + 8 = 20$

Section - II

Answer any *two* questions. $10 \times 2 = 20$

3. What do you understand by urban agglomeration ?
Discuss the characteristics of urban agglomeration. $2 + 8 = 10$

4. Critically analyze the Concentric Zone Theory to explain the internal structure of urban centres. What do you mean by Multiple Nuclei ? $7 + 3 = 10$

5. Differentiate between frontier and boundary. Attempt a classification of boundary. $4 + 6 = 10$

6. Give an account of the characteristics of the slums in developing countries. 10

(4)

Section - III

2×5=10

7. Write short notes on :

- (a) Conurbation.
 - (b) CBD
 - (c) Buffer State
 - (d) ASEAN
 - (e) Census Town.
-

P - III (1+1+1) H/16 (N+O)

2016

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. $10 \times 1 = 10$

1. Define the term 'Laterite'. Bring out the development of laterite soil profile. $2+8=10$

2. Distinguish between soil texture and soil structure. Explain the role of pH, NPK on fertility of soil. $2+8=10$

Section - II

Answer any *four* questions. $4 \times 4 = 16$

3. Assess the role of organic matter in the formation of soil. 4

P.T.O.

4. What are the advantages and disadvantages of USDA soil taxonomic classification ? 4
5. Define soil profile. What are characteristics of 'A' & 'B' horizon of an ideal soil profile ? 1+3=4
6. Differentiate Zonal soil from Azonal soil. 4
7. Explain the specific content of soil geography in present context. 4
8. Highlight the important methods are employed for soil conservation. 4

Section - III

Answer *all* question : 2×2=4

9. Write short notes on the following :
- (a) Gully Erosion.
- (b) Hard pan.

Group - B

Bio-geography

(Marks - 20)

Section - I

Answer any *one* question (600-700 words)

10×1=10

10. Define biota. Mention the geographical location of Savana biome. What are the characteristics of vegetation of tropical rainforests or selva biome ?

2+3+5=10

11. Bring out the different components and their relationship in maintaining an ideal ecosystem with special reference to river ecosystem. 10

Section - II

Answer any *one* question (200-250 words) $4 \times 1 = 4$

12. Mention the role of bio-geo-chemical cycle for ecological balance. 4

13. How Laws of thermodynamics applied to flow the energy in ecosystem across the trophic level. 4

Section - III

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

(a) Bio-diversity Hotspot.

(b) Food web.

(c) Beta-Diversity.

[Old Syllabus]

Section - I

Answer any *one* question. $20 \times 1 = 20$

1. Define soil structure. Make a textual classification of soils. How does soil texture influence the productivity of soil ? $2 + 14 + 4 = 20$

2. Define biome. Mention the geographical location of Tropical evergreen biome. Briefly explain the nature and characteristics of flora and fauna of tropical evergreen biome.

2+2+16=20

Section - II

Answer any *two* questions. $10 \times 2 = 20$

3. Define Wetlands. Mention the relevances of wetland for ecological balance. $2+8=10$

4. Explain different components of Bio-diversity and write down its importance. $6+4=10$

5. Explain the importance of chemical properties of soil in maintaining soil fertility. 10

6. Give an account of different factor affecting soil formation. 10

Section - III

Answer *all* questions.

7. Write short notes in the following : $2 \times 5 = 10$

(a) Ecological Niche

(b) Pedalfar

(c) Illuviation

(d) Food chain

(e) Ramsar sites in India.

2017

GEOGRAPHY (Honours)

Paper Code : III-B

(New Syllabus)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

Group - A

[Economic Geography]

Section - I

Answer any *one* question (600-700 words) :

10×1=10

1. Define resource. Attempt a classification of resource. Assess the role of power in utilization of resource.

2+4+4=10

2. What do you mean by primary activities ? What conditions have made the Darjeeling District World famous in tea cultivation ?

3+7=10

Section - II

Answer any *four* questions (300 - 350 words) :

5×4=20

3. Explain the environmental significance of forest.

4. Explain with special reference to India the future prospect of food processing industry.
5. Illustrate role of transport and communication in utilization of natural resources.
6. Comment on potential use of non-conventional energy with special reference to solar energy.
7. Explain the functional theory of resource.
8. How far Weber's theory of industrial location is useful in explaining locational pattern of industry in modern world ?
9. Explain the necessities of renewable resource conservation.
10. Discuss the problems of coal industry in India.

Group - B

[Region, Regional Planning and Development]

Section - I

Answer any *one* question (600-700 words) :

10×1=10

11. Define region. How it is demarcated ?

2+8=10

12. What are the indicators of development ? Explain with suitable example. What do you mean by regional imbalance ?

5+5=10

(3)

Section - II

Answer any *two* questions (300 - 350 words) :

5×2=10

13. Distinguish between the concepts of regionalization and regionalism.
 14. Discuss the role of geographers in shaping up the planning and program process in National level.
 15. Distinguish between formal and functional region.
 16. Explain how HDI is calculated ?
-

2017

GEOGRAPHY (Honours)

Paper Code : III-B

(New Syllabus)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

Group - A

[Economic Geography]

Section - I

Answer any *one* question (600-700 words) :

10×1=10

1. Define resource. Attempt a classification of resource. Assess the role of power in utilization of resource.

2+4+4=10

2. What do you mean by primary activities ? What conditions have made the Darjeeling District World famous in tea cultivation ?

3+7=10

Section - II

Answer any *four* questions (300 - 350 words) :

5×4=20

3. Explain the environmental significance of forest.

P.T.O.

4. Explain with special reference to India the future prospect of food processing industry.
5. Illustrate role of transport and communication in utilization of natural resources.
6. Comment on potential use of non-conventional energy with special reference to solar energy.
7. Explain the functional theory of resource.
8. How far Weber's theory of industrial location is useful in explaining locational pattern of industry in modern world ?
9. Explain the necessities of renewable resource conservation.
10. Discuss the problems of coal industry in India.

Group - B

[Region, Regional Planning and Development]

Section - I

Answer any *one* question (600-700 words) :

11. Define region. How it is demarcated ? 10×1=10
12. What are the indicators of development ? Explain with suitable example. What do you mean by regional imbalance ? 2+8=10
- 5+5=10

(3)

Section - II

Answer any *two* questions (300 - 350 words) :

5×2=10

13. Distinguish between the concepts of regionalization and regionalism.
 14. Discuss the role of geographers in shaping up the planning and program process in National level.
 15. Distinguish between formal and functional region.
 16. Explain how HDI is calculated ?
-

2017

GEOGRAPHY (Honours)

Paper Code : III-C

(New Syllabus)

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

CLIMATOLOGY

Section - I

Answer any *one* question.

10×1=10

1. Discuss the structure and composition of atmosphere above ground surface upto stratopause with suitable illustration.

10

2. Critically discuss the world climatic classification after Koppen.

10

Section - II

Answer any *four* questions.

5×4=20

3. Write the role of latitude on determining the horizontal distribution of temperature on earth.

5

4. Explain the horizontal distribution of air pressure in the month of January.

5

5. Explain briefly the process of ozone hole formation over Antarctica. 5

6. What is Greenhouse effect? Discuss in brief the impact of Global Warming on weather and climate. 2+3=5

7. Discuss the weather conditions associated with 'Extra-Tropical Cyclone'. 5

8. How are the jet streams formed? Discuss with suitable illustration. 5

9. Discuss the mechanism of the ice crystal theory to occur precipitation. 5

10. Write about the origin and impact of La-Nina. 5

Soil and Biogeography

Section - III

Answer any *one* question. 10×1=10

11. Write down the development of Laterite Soil Profile with suitable sketches. 10

12. Illustrate the causes and consequences of the loss of biodiversity with examples from North Bengal Forests. 10

Section - IV

Answer any *two* questions. 5×2=10

13. Write down the role of soil texture on agricultural process. 5

(3)

14. A sample soil solution is tested as $\text{pH} = 3.7$. How do you interpret the characteristics of that soil. What will be the effective measures of culturing the particular soil areas ?

2+3

15. Explain in brief the Nitrozen cycle.

5

16. 'Wetlands are commonly reffered to as nature's Kidneys' — justify the appropriateness of the comment. 5

2017

GEOGRAPHY (Honours)

Tenth Paper

[Soil Geography and Biogeography]

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

Group - A

Soil Geography

(Marks - 30)

Section - I

Answer any *one* question. 10×1=10

1. Discuss the USDA scheme of soil classification highlighting its basic principles. 10
2. Discuss the development of laterite soil profile citing suitable examples from India. 10

Section - II

Answer any *four* questions. 4×4=16

3. How is Soil profile formation related to time ? 4
4. State the influence of NPK on soil fertility. 4

P.T.O.

5. Why is laterite red in colour while chernozem is black ? 4

6. Do you think texture of the soil is the determinant of its water holding capacity ? 4

7. Explain how the nature of illuviation determines the characteristics of pedalfers. 4

8. What are the mechanical methods of soil conservation ? 4

Section - III

Answer *all* questions.

2×2=4

9. (a) Regolith.

(b) Mineralization.

Group - B

Biogeography

(Marks - 20)

Section - I

Answer any *one* question (600-700 words)

10×1=10

10. Explain with examples the trophic levels of a food chain indicating the position and role of human beings.

7+3=10

11. Discuss the characteristics of Taiga Forest biome.

10

(3)

Section - II

Answer any *one* question (200-250 words)

4×1=4

12. Distinguish between 'Ecotone' and 'ecological niche'.
4
13. What are the processes involved in nitrogen cycle ?
4

Section - III

14. Answer *all* questions (80-100 words) : 2×3=6
- (a) What is 10% law of energy transfer ?
 - (b) What is meant by Climax Vegetation ?
 - (c) What is physiological drought ?
-

2018

GEOGRAPHY (Honours)

Paper : III-B

[New Syllabus]

Full Marks : 50

Time : Two Hours

The figures in the margin indicate full marks.

Group - A

[Economic Geography]

Section - I

Answer any *one* question.

10×1=10

1. Mention the significance of dynamic concept of resource. What do you mean by sustainable use of resources?

6+4=10

2. What are the disadvantages of using nuclear energy? Comment on the potentiality of solar energy as emerging source of power generation. What is SPV?

2+6+2=10

Section - II

Answer any *four* questions.

5×4=20

3. Comment on the validity of Weber's theory of Industrial Location with proper examples.

5

P.T.O.

4. Identify the problems of Tea Industry of North Bengal. What prospects do you find in this industry? 3+2

5. Identify the problem of rice cultivation South-East Asia. What solutions can be applicable to overcome those problems? 3+2=5

6. What is choked flow resource? Identify the existing and potential areas of hydel power in South India. 2+3

7. Describe the increasing importance of agro-forestry in modern civilization. 5

8. Describe the future prospects of food processing industry in West Bengal. 5

9. Account for the distribution of petro-chemical industry in western India. 5

10. What is tertiary activity? Write in brief the types of communication system. 2+3=5

Group - B

[Region, Regional Planning and Development]

Section - I

Answer any *one* question. 10×1=10

11. Define the term 'development' and differentiate it from 'growth'. How is balanced development achieved through the process of regional development? 2+2+6=10

(3)

12. Distinguish between centralised planning and decentralised planning. Make a criticism on 'Myrdal's Theory'.
7+3=10

Section - II

Answer any *two* questions. 5×2=10

13. Write a short note on 'MGNREGA' and 'PMGSY'.
2½+2½

14. What is vicious cycle of poverty? Relate the said concept with developing economy. 2+3=5

15. Elaborate the concept of planning region. 5

16. How the regions are delineated? Write any two characteristics of functional region. 3+2=5

2018

GEOGRAPHY (Honours)

Paper : III-C

[New Syllabus]

Full Marks : 50

Time : Two Hours

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CLIMATOLOGY

Section - I

Answer any *one* question.

10×1=10

1. Define monsoon. Discuss the origin and development of monsoon in light of Jet Stream Theory. 2+8=10

2. Give an account of global pressure belt. Explain how does global pressure belt control the planetary wind system. 5+5=10

5+5=10

Section - II

Answer any *four* questions.

5×4=20

3. Write about the importance of ozone layer in the atmosphere.

4. Explain the mechanism of formation of precipitation as per Collision-Coalescence Theory. 5

5. What are the consequences of El-Nino on world climate? 5

6. What is lapse rate? Distinguish between normal Lapse Rate and Adiabatic Lapse rate. 2+3=5

7. Analyse the basis of climatic classification after Koppen. 5

8. Explain the causes that lead to the increase of greenhouse gases. 5

9. Write a short note on Inversion of temperature. 5

10. What are the favourable geographical conditions for the origin of 'tropical cyclone'? 5

SOIL AND BIOGEOGRAPHY

Section - III

Answer any *one* question. 10×1=10

11. Assess the role of climate and soil organic matter in soil forming process. 5+5=10

12. Define ecosystem. Describe its structure. Explain the function of ecosystem with the help of law of thermodynamics. 2+3+5=10

(3)

Section - IV

Answer any *two* questions.

5×2=10

13. Distinguish between the processes of eluviation and illuviation. Assess the role of illuviation in characterising the B-horizon of the soil.

2+3=5

14. Write down the role of soil pH for 'plant productivity'.

5

15. Define the term 'Biome'. Explain the causes of Biodiversity loss.

2+3=5

16. Write down the significance of wetland conservation in present context, with examples.

5