



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2022-23

GEOACOR11T-GEOGRAPHY (CC11)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

FOR REGULAR SYLLABUS

CATEGORY-A

Answer any one question from the following (within 600 words)

10×1 = 10

1. Discuss the steps involved in a good literature review. Also highlight the errors which may occur during literature review. 6+4
2. Discuss different techniques used in landscape surveying. How do you identify research gaps? 7+3

CATEGORY-B

Answer any four questions from the following (within 150 words each)

5×4 = 20

3. Differentiate between null hypothesis and alternative hypothesis.
4. Mention the importance of keywords. Discuss the guidelines to be followed in choosing keywords. 2+3
5. Distinguish between questionnaire and schedule.
6. What is meant by post-field tabulation?
7. What is 'exploratory' research?
8. Mention the role of quadrants in landscape survey.
9. Explain the importance of pilot survey in geographical research.

CATEGORY-C

Answer any five questions from the following (within 50 words each)

2×5 = 10

10. What is an abstract?
11. Distinguish between participant and non-participant observation.
12. Distinguish between references and bibliography.
13. What is a manifold table? Give examples.
14. What is standard error in sampling?
15. Define data inventory.



16. Discuss the causes for bias in sampling.
17. What do you mean by research hypothesis?
18. What is the role of sketching in a landscape survey?

FOR TRUNCATED SYLLABUS

CATEGORY-A

Answer any one question from the following (within 600 words) 10×1 = 10

1. Explain different steps of literature review. What are the common mistakes in literature review? 7+3
2. Critically explain the various elements of writing scientific report. 10

CATEGORY-B

Answer any four questions from the following (within 150 words each) 5×4 = 20

3. Mention the importance of Keywords. What points are to be kept in mind while choosing keywords?
4. Differentiate between questionnaire and schedule.
5. What is post-field tabulation?
6. Define 'exploratory' research.
7. Explain the importance of pilot survey in geographical research.
8. Differentiate between qualitative and quantitative research.
9. What ethics must be maintained during environmental fieldwork?

CATEGORY-C

Answer any five questions from the following (within 50 words each) 2×5 = 10

10. What is an abstract?
11. Distinguish between participant and non-participant observation.
12. Distinguish between references and bibliography.
13. What is a manifold table? Give examples.
14. What is data inventory?
15. Define applied research.
16. What is a research hypothesis?
17. What is APA format in referencing?
18. What is a monograph?



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2022-23

GEOACOR12T-GEOGRAPHY (CC12)

Time Allotted: 2 Hours

Full Marks: 40

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FOR REGULAR SYLLABUS

CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. What is atmospheric window and how does it relate to remote sensing? 7+3
Differentiate between spectral and spatial resolution.
2. In what way does sensor differ from scanner? Explain the process of downloading satellite data from Bhuvan Web Portal. 3+7

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. Explain different types of scattering of light.
4. What does microwave window do?
5. Briefly describe three important key elements of visual interpretation of standard FCC.
6. Discuss in brief the advantages and disadvantages of Raster data structure.
7. How shapefiles are created in QGIS?
8. What do you mean by FCC? State four most common band combinations in preparing FCC.
9. What is spectral signature? Describe the spectral response of soil and water in remote sensing technology.

CATEGORY-C

Answer any *five* questions from the following (within 50 words each) 2×5 = 10

10. What is spectral reflectance curve?
11. What is non-selective scattering?
12. What is Pseudo-Random Noise (PRN)?
13. What are the wavelengths of three primary colour?



14. What is SRTM?
15. What is LANDSAT mission?
16. Define datum.
17. What is EMR?
18. What are the data types used in GIS?

FOR TRUNCATED SYLLABUS

CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. Discuss various approaches to hazard study with reference to risk perception and vulnerability assessment. How does risk differ from threat? 7+3
2. Describe the impact of tropical cyclone on Sundarban. Explain different methods to reduce the risk of cyclonic hazard in coastal areas of India. 5+5

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. Elucidate the concept of resilience and capacity building in respect to hazard management in brief.
4. Identify factors responsible for river bank erosion in lower Gangetic plain of West Bengal.
5. How geospatial techniques are applied for hazard mapping?
6. What do you understand by vulnerability assessment?
7. Explain the role of technology in disaster management.
8. State the different earthquake preparedness programmes in eastern Himalaya.
9. Write short note on the 'hazard paradigm'.

CATEGORY-C

Answer any *five* questions from the following (within 50 words each) 2×5 = 10

10. What is 'trauma' in a post-disaster scenario?
11. What is cyclone shelter?
12. What are the four stages of vulnerability management?
13. What do you mean by microinsurance in disaster management?
14. How are tropical cyclones named over north Indian ocean?
15. What is a littoral drift current?
16. What do you mean by climate resilience?
17. What is 'techno-centric approach' in hazard management?
18. Define quasi-natural hazard with suitable examples.

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2022-23

GEOADSE01T-GEOGRAPHY (DSE1/2)

SOIL AND BIOGEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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FOR REGULAR SYLLABUS

CATEGORY-A

Answer any *two* questions from the following (within 600 words each) $10 \times 2 = 20$

1. 'Laterite and Podzol are both Pedalfers but their profile characteristics are different' — Elucidate. 10
2. Give an account of soil erosion in humid and semiarid regions. How can such erosion be arrested? 7+3
3. Describe the geographical extent and characteristic feature of Tropical Rain Forest Biome. 10

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) $5 \times 4 = 20$

4. How human activities influence soil transformation?
5. Differentiate between eluviation and illuviation.
6. Discuss the impact of soil texture on fertility of soil with suitable examples.
7. Explain energy pyramid with suitable illustration.
8. Distinguish between food chain and food web.
9. What is the importance of carbon-di-oxide cycle in reference to environment?
10. Explain the role of decomposer in an ecosystem.

CATEGORY-C

Answer any *five* questions from the following (within 50 words each) $2 \times 5 = 10$

11. How does solum differ from regolith?
12. What is C:N ratio?
13. What is mature soil?
14. Mention the geographical location of Taiga Biome.
15. What is the significance of NPK?



- ✓16. What is Red Data Book?
17. What is meant by 'net primary productivity'?
18. Define polypedon.
19. What is meant by rill and gully erosion?

FOR TRUNCATED SYLLABUS

CATEGORY-A

- Answer any *two* questions from the following (within 600 words each) 10×2 = 20
1. Explain the development of soil profile in chernozem soil along with reasons behind such formation. 7+3
 2. Highlight the role played by man as an active agent of soil formation. State some suitable measures for mitigation of soil degradation.
 3. Define Biome. Discuss the Geographical extent and characteristics of Grassland Biome. 2+8

CATEGORY-B

- Answer any *four* questions from the following (within 150 words each) 5×4 = 20
4. Distinguish between zonal and azonal soil.
 5. Classify soil structure.
 6. Explain the detritus food chain with suitable example.
 7. How does soil pH effect on plant growth?
 8. Explain the biomass pyramid with suitable examples.
 9. Differentiate between 'niche' and 'habitat'.
 10. Discuss about the vertical stratification of vegetation of the Tropical Rainforest Biome.

CATEGORY-C

- Answer any *five* questions from the following (within 50 words each) 2×5 = 10
11. What is soil catena?
 12. What is immature soil?
 13. What is the importance of soil porosity?
 14. What is Green Data Book?
 15. Mention two causes of soil erosion.
 16. What is meant by 'net primary productivity'?
 17. What is C:N ratio?
 18. How does solum differ from regolith?
 19. Write down the concept of BOD.

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2022-23

GEOADSE03T-GEOGRAPHY (DSE1/2)

Time Allotted: 2 Hours

Full Marks: 50

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REGULAR SYLLABUS

CATEGORY-A

Answer any *two* questions from the following (within 600 words each)

10×2 = 20

- ✓ 1. Discuss the Demographic Transition Theory. Justify India's current position in Demographic Transition Model. 7+3
- ✓ 2. State the causes and consequences of different internal migration with reference to India and mention its impact on both source and destination regions.
3. Critically examine National Population Policy - 2000 and its relevance to present age-sex structure of India.

CATEGORY-B

Answer any *four* questions from the following (within 150 words each)

5×4 = 20

- ✓ 4. Discuss the positive and negative impacts to urbanization.
5. Elaborate the socio-economic determinants of fertility.
6. Relate the changing pattern of occupational structure with female education in India.
7. Define population growth and its relation to the development process.
- ✓ 8. Elaborate two measures of mortality.
- ✓ 9. Mention the consequences of international migration.
- ✓ 10. State the causes and consequences of declining sex ratio in India in recent years.

CATEGORY-C

Answer any *five* questions from the following (within 50 words each)

2×5 = 10

- ✓ 11. Why population growth rate is high in developing countries?
- ✓ 12. Define "dependency ratio".
- ✓ 13. Mention two socio-cultural factors of uneven distribution of population in India.
- ✓ 14. Mention the various sources of population data.
15. Define "Replacement Rate".
- ✓ 16. Presently which state in India has the highest population density and why?

17. Define 'Literacy' according to the Census of India.
18. Mention the countries most affected by HIV/AIDS.
19. Why 1921 is considered as 'demographic divide' in the census history of India?



TRUNCATED SYLLABUS

CATEGORY-A

Answer any two questions from the following (within 600 words each)

10×2 = 20

1. Throw light on classical and modern theories in Population distribution and growth. What is the difference between population geography and demography?
2. State the causes and consequences of different internal migration with reference to India and mention its impact on both source and destination regions.
3. Critically evaluate the National Population Policy - 2000 and its relevance to present age-sex structure of India.

8+2

CATEGORY-B

Answer any four questions from the following (within 150 words each)

5×4 = 20

4. Describe the important socio-cultural determinants of population distribution in India.
5. Describe the Demographic Transition Theory in brief.
6. Discuss the positive and negative impacts of urbanization.
7. Relate the changing pattern of occupational structure with female education in India.
8. Analyze the concept of Human Development Index.
9. State the causes and consequences of declining sex-ratio in India in recent years.
10. Assess the challenges for countries with the largest share of aged population.

CATEGORY-C

Answer any five questions from the following (within 50 words each)

2×5 = 10

11. Define 'Literacy' according to the Census of India.
12. What are the important sources of population data?
13. What is dependency ratio?
14. Mention the countries most affected with HIV/AIDS.
15. Why 1921 is considered as 'demographic divide' in the Census history of India?
16. What activities are included in the primary sector?
17. Why population growth is high in developing countries?
18. Why push factor is more important in raising rate of urbanization in India?
19. Write short note on 'optimum' population.

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2021-22

GEOACOR11T-GEOGRAPHY (CC11)

FIELDWORK AND RESEARCH METHODOLOGY

Time Allotted: 2 Hours

Full Marks: 40

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CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. Describe the different types of research. Clearly point out the difference between experiment and a survey. 6+4
2. Highlight the significance of literature review in research. Describe the procedures in identifying research problems in geography. 5+5

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. Discuss the characteristics of a good hypothesis.
4. Highlight the significance of pilot survey in geographical research.
5. Differentiate between fundamental research and action research.
6. Why bibliography and references are important in research?
7. Give a brief account of the layout of a Research Report.
8. State the qualities of a good questionnaire in field survey.
9. Bring out the significance of tabulation in geographical research.



CATEGORY-C

Answer any *five* questions from the following (within 50 words each)

10. Define Participant Observation.
11. Define FGD.
12. What is QUOTA sampling?
13. What do you mean by pilot survey?
14. What is the research question?
15. What is meant by 'citation'?
16. What do you mean by plagiarism in research?
17. What are the ethics in fieldwork?
18. What is a sampling error?

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2021-22

GEOACOR12T-GEOGRAPHY (CC12)

DISASTER MANAGEMENT

Time Allotted: 2 Hours

Full Marks: 40

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CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. Explain the mechanism of riverbank erosion highlighting its socio-economic impact. 6+4
2. Distinguish between risk and vulnerability of hazards. Describe the different pre-disaster management programmes. 4+6

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. Differentiate between Hazard and Disaster.
4. Write a short note on the different types of seismic waves.
5. Describe the impact of tropical cyclones on Sundarbans.
6. Briefly discuss the key features of the National Disaster Management Act, 2005.
7. Discuss the role of afforestation in combating riverbank erosion.
8. Discuss different phases of Disaster Management in India.
9. Why the Himalayas are more prone to earthquakes than the Western Ghats?



CATEGORY-C

Answer any five questions from the following (within 50 words each)

10. Define seismic gap.
11. Define man made hazards with two suitable examples.
12. What do you understand by capacity building in hazard management?
13. Give two uses of hazard maps.
14. Discuss two roles of geo-spatial technology in disaster management.
15. Define hazard paradigm.
16. Give the names of data sources for preparing hazard maps.
17. Which are the nodal agencies of hazard management in India?
18. Define landfall.
19. What is hazards preparedness?

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2021-22

GEOADSE01T-GEOGRAPHY (DSE1/2)

SOIL AND BIOGEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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CATEGORY-A

Answer any two questions from the following (Within 600 words each) 10×2 = 20

1. Analyse the importance of soil structure and texture on plant growth. Distinguish between capillary water and gravitational water. 6+4
2. What is azonal soil? Discuss the principle of soil classification as proposed by the USDA. 2+8
3. What measures have been taken by Government of India for conserving biodiversity? State the role of 'Man and Biosphere program' in this context. 7+3

CATEGORY-B

Answer any four questions from the following (Within 150 words each) 5×4 = 20

4. Briefly discuss about soil erosion processes and their impact on crop production.
5. Why Chernozem is called incompletely leached soil?
6. How much more acidic is pH3 than pH5? Explain why.
7. Why is Tropical rainforest rich in biodiversity?
8. Distinguished between nitrification and denitrification.
9. What are the sources of soil organic matter? Mention its significance.
10. Explain the stages of the succession of plants.



CATEGORY-C

Answer any five questions from the following (Within 50 words each)

11. How does columnar soil structure form?
12. What is truncated profile?
13. What is the key difference between savanna and prairie?
14. What is a Sanctuary?
15. What is the significance of a Biosphere Reserve?
16. What is meant by climax vegetation?
17. What is Species Diversity?
18. State the role of humic acid in soil ped.
19. What is ecotone?

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 5th Semester Examination, 2021-22

GEOADSE03T-GEOGRAPHY (DSE1/2)

POPULATION GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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CATEGORY-A

Answer any two questions from the following within 600 words each 10×2 = 20

1. Discuss the various sources of population data and mention their advantages and disadvantages. 6+4
2. Elucidate the concept of Human Development. How is HDI calculated? 4+6
3. Throw some light on literacy differentials found in India. How does illiteracy affect the population growth in India? 7+3

CATEGORY-B

Answer any four questions from the following within 150 words each 5×4 = 20

4. Narrate the causes of declining sex ratio in India. 5
5. Give an account on inequality of education in India. 5
6. Discuss the problems resulted from urbanization in India. 5
7. Analyze the population and environment dichotomy. 5
8. Throw some light on the change in occupational structure in India since 1991. 5
9. Discuss the relevance of demographic transition theory in developed and developing countries. 5
10. Discuss the economic factors that influence the distribution of population in India. 5



CATEGORY-C

Answer any *five* questions from the following within 50 words each

- | | |
|--|---|
| 11. Define 'Life Table'. | 2 |
| 12. Give the definition of 'workers' according to the Census of India. | 2 |
| 13. What do you mean by 'population explosion'? | 2 |
| 14. Define infant mortality rate. | 2 |
| 15. Distinguish between man-land ratio and population density. | 2 |
| 16. Define nutritional density. | 2 |
| 17. What are the 'push factors' of migration? | 2 |
| 18. What is the significance of age-sex pyramid? | 2 |
| 19. Distinguish between metropolis and megalopolis. | 2 |

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WEST BENGAL STATE UNIVERSITY
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GEOACOR11T-GEOGRAPHY (CC11)

FIELDWORK AND RESEARCH METHODOLOGY

Time Allotted: 2 Hours

Full Marks: 40

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CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. Critically analyse the different field techniques and tools adopted in any geographical study. 10
2. Give a brief account of the different sources of Literature Review. How Literature Review in any research help in the formulation of Research Design? 4+6=10

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. What are the ethical protocols that should be kept in mind during the household survey?
4. Mention the criteria for the selection of a research problem.
5. Mention the significance of fieldwork in Geographical studies.
6. Discuss the significance of an applied research.
7. Discuss the advantages and disadvantages of participant observation method.
8. What are the essential parts of a Research Report?
9. Mention the characteristics of a good questionnaire.



CATEGORY-C

Answer any *five* questions from the following (within 50 words each)

10. Mention different types of research design.
11. What is phenomenology?
12. Define 'Research gap'.
13. Give examples of non-parametric test.
14. How does inventory report help for preparing master data table?
15. Mention the importance of 'Keywords'.
16. Why do we write Abstract in a research paper?
17. Name two referencing systems with examples.
18. Why Pre-Field work is important?

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GEOACOR12T-GEOGRAPHY (CC12)

DISASTER MANAGEMENT

Time Allotted: 2 Hours

Full Marks: 40

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Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

CATEGORY-A

Answer any *one* question from the following (within 600 words) 10×1 = 10

1. What are the factors responsible for major cyclonic landfalls in Indian subcontinents? How can we reduce the worse effect of cyclones by proper management? 6+4 =10
2. What are the differences between hazard and disaster? Explain different approaches to hazard study. 3+7=10

CATEGORY-B

Answer any *four* questions from the following (within 150 words each) 5×4 = 20

3. What is meant by disaster preparedness-Explain with examples.
4. Distinguish between *quasi natural* and *man made* hazards with examples.
5. What are the damage magnitudes according to the Richter scale?
6. How geospatial techniques are applied for hazards mapping?
7. What measures can be taken to combat the problem of bank erosion of the Ganga in Malda and Murshidabad district?
8. What do you understand by capacity building in hazard management?
9. What are the post-disaster management strategies of earthquake?



CATEGORY-C

Answer any *five* questions from the following (within 50 words each)

10. What is hazard mapping?
11. What is meant by preparedness in disaster mitigation?
12. What is meant by aftershock of an earthquake?
13. What is risk perception?
14. What do you mean by anthropogenic hazard?
15. What is trauma in hazard response?
16. What is the 'eye' of a cyclone?
17. What is vulnerability index?
18. Define resilience with respect to hazards.
19. Write about two major impacts of human activities on riverbank erosion.

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GEOADSE01T-GEOGRAPHY (DSE1/2)

SOIL AND BIOGEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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CATEGORY-A

Answer any two questions from the following (Each within 600 words) 10×2 = 20

1. Explain the role of climate and time in soil formation. 10
2. Define biosphere. Critically discuss a terrestrial ecosystem with its energy sources, energy exchange and food chain. 2+8
3. How does the pH of soil affect plant growth? Explain the importance of soil organic matter for the diversification of crops. 4+6

CATEGORY-B

Answer any four questions from the following (Each within 150 words) 5×4 = 20

4. Briefly discuss the horizons of Laterite soil.
5. State the importance of NPK on crop growth.
6. Discuss the role of soil texture on formation of soil structure.
7. What are the orders and their characteristics in U.S.D.A.'s Seventh Approximation of soil classification?
8. Distinguish between food chain and food web. State the importance of the food chain.
9. How does biomass pyramid differ from energy pyramid?



10. Discuss the problem of soil salinization leading to its degradation.

CATEGORY-C

Answer any five questions from the following (Each within 50 words)

2×5 = 10

11. Define the term Pedon.
12. What is hygroscopic water?
13. What is red data book?
14. Distinguish between solum and regolith.
15. Define ecocline and ecotone.
16. What is the biological clock?
17. What is field capacity?
18. What is carbon-nitrogen ratio?
19. Define Biodiversity Hotspot.

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WEST BENGAL STATE UNIVERSITY
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GEOADSE03T-GEOGRAPHY (DSE1/2)

POPULATION GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 50

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Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

CATEGORY-A

Answer any two questions from the following (within 600 words each) 10×2 = 20

1. How much is the Malthusian theory of population relevant to contemporary world? Does the population size control the development of the concerned nation? 6+4
2. State the causes of different internal migration with reference to India and mention its impact on both source and destination regions. 6+4
3. Briefly describe the different stages of age-sex pyramid with proper example. Explain in what stage you will place India in the Demographic Transition model and why? 7+3

CATEGORY-B

Answer any four questions from the following (within 150 words each) 5×4 = 20

4. Correlate population and environmental degradation. 5
5. Explain briefly the recent trends of urbanization in India. 5
6. Discuss the impact of female literacy on the population structure in rural area. 5
7. What are the causes of declining growth of population in India since 1991? 5
8. Discuss the physical factors responsible for uneven distribution of population in India. 5
9. Mention the salient features of the recent population policy of India and its relevance to nation's population control. 5
10. Discuss the measures of fertility. 5



CATEGORY-C

Answer any five questions from the following (within 50 words each)

- | | | |
|-----|--|---|
| 11. | What is the possible impact of an increased dependency ratio? | 2 |
| 12. | Define zero population growth. | 2 |
| 13. | What is Transhumance? | 2 |
| 14. | Mention two major population problems of India. | 2 |
| 15. | Differentiate between Population Geography and Demography. | 2 |
| 16. | Why is declining sex ratio considered as antagonistic side of a society? | 2 |
| 17. | What are the goal posts of Human Development Index? | 2 |
| 18. | What do you mean by over population and under population? | 2 |
| 19. | Define 'Cohort'. | 2 |

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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