WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2022-23

GEOACOR05T-GEOGRAPHY (CC5)

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

GROUP-A

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

1. Discuss the origin and characteristics of mid-latitude cyclones. Illustrate with the help of diagram.   6+4

2. Highlight the major Green House Gases present in the atmosphere. Assess the importance of ozone layer in the atmosphere.   7+3

GROUP-B

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

3. "The stability and instability of the atmosphere depends on the relationship between normal lapse rate and adiabatic change of temperature"— Explain.

4. How does Aw climate differ from Af climate?

5. Distinguish between barotropic and baroclinic conditions of the atmosphere.

6. Distinguish between "freezing nuclei" and "condensation nuclei".

7. Differentiate Frontogenesis from Frontolysis.

8. Mention the factors of influencing insolation.

9. Mention the salient features of the modified (1948) climatic classification as proposed by Thornthwaite.

GROUP-C

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

10. What do you understand by Potential Evapotranspiration?

11. Mention the significance of ionosphere.

12. How are El-nino and Monsoon related?

13. What is 'Aerosol'?

14. Define Solar Constant.

15. Distinguish between cPks air mass and mTwu air mass.

16. What is inversion of temperature?

17. What is Thermal Equator?

18. What is the role of an 'eye' in the development of a tropical cyclone?

FOR TRUNCATED SYLLABUS

GROUP-A

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

1. Elucidate the factors controlling insolation of the earth. Give a suitable diagram of the Heat Budget of the earth.   7+3

2. Discuss the origin and characteristics structure of Tropical cyclones. What is occlusion?   8+2

GROUP-B

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

3. Describe the nature and composition of Troposphere.

4. What are the major types of inversion of Temperature?

5. Discuss the significance of Ozone layer.

6. State the origin of mid-latitude cyclone.

7. Distinguish between barotropic and baroclinic conditions.

8. Specify the conditions required for condensation.

9. Mention the salient features of A climate in Koppen's classification.

GROUP-C

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

10. What is monex?

11. What is hygroscopic nuclei?

12. What is hadley cell?

13. What is break in monsoon?

14. Define 'Aerosol'.

15. Define 'Hail'.

16. Define Jetstream.

17. What do you mean by Green House effect?

18. What is Potential Evaporation?

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2022-23

GEOACOR06T-GEOGRAPHY (CC6)

Time Allotted: 2 Hours

Full Marks: 50

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

1. Describe the major physiographic features of the southern peninsular plateau of India. Mention the evolution of the Karewas in Kashmir region.   7+3

2. Describe the climatic regions of India proposed by Koppen.   10

3. Explain the role of the green revolution on the regional disparity of India. State the characteristic of surface hydrology in Indian Sundarban.   6+4

CATEGORY-B

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

4. Briefly discuss the role of south-west monsoon on Indian economy.

5. Discuss the role of the IT industry in the modern Indian economy.

6. Briefly describe the problems of the tea industry of Darjeeling region.

7. Write a short note on the occupation of the Santal tribes.

8. Account for the regional variation of population growth in India.

9. Give a brief account of the distribution of iron ore in India.

10. Describe the prospect of tourism industry in West Bengal.

CATEGORY-C

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

11. What is Main Boundary Fault (MBF)?

12. Distinguish between Terai and Duars.

13. Name four byproducts of petroleum.

14. Why is Durgapur called the Ruhr of India?

15. What are the characteristics of Mangrove forest?

16. Define agricultural region.

17. Why is the year 1921 considered as a demographic divide in India?

18. What are the prospects of SEZ in West Bengal?

FOR TRUNCATED SYLLABUS

CATEGORY-A

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

1. What are the factors responsible for Green Revolution in India? Explain the role of the green revolution on the regional disparity of India.   7+3

2. Discuss the problems of Sundarban region. What measures have been adopted to mitigate those problems?   6+4

3. State the different factors affecting the climate of India. Mention major soil types of India.   7+3

CATEGORY-B

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

4. Discuss the culture and livelihood of the Jarwas.

5. Briefly discuss the role of South-West monsoon in Indian Economy.

6. State the factors responsible for soil erosion in India.

7. Discuss the prospect of automobile industry in India.

8. Briefly discuss the problems of the tea industry of Darjeeling region.

9. Account for the regional variation of population growth in India.

10. Give a brief account of the geographical distribution of Iron ore in India.

CATEGORY-C

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

11. What are the measures to control landslide in the Darjeeling Hills.

12. What are the characteristics of red soil?

13. What are the reasons of bio-diversity loss in Sundarban.

14. Write a short note on agricultural region.

15. Distinguish Terai and Duars.

16. What is the break of Monsoon?

17. Mention the components of Human Developments.

18. Highlight the prospects of automobile industry in India.

19. State two factors responsible for ground water contamination in deltaic West Bengal.

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সত্যং শিবসুন্দরম্

WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2022-23

GEOACOR07T-GEOGRAPHY (CC7)

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

GROUP-A

Answer any *one* question from the following $10\times1 = 10$

1. What is correlation coefficient? Determine the rank correlation coefficient between X and Y. 2+8

X:	250	310	250	280	390	250	420	280
Y:	65	95	80	95	100	55	85	75

2. Compare the relative advantages and disadvantages of arithmetic mean, geometric mean and harmonic mean. In which type of situation it is better to use median or mode rather than mean? Why? 7+3

GROUP-B

Answer any *four* questions from the following $5\times4 = 20$

3. In what respect secondary data is different from primary data? Describe the various sources of secondary data. 1+4

4. Mention the importance of statistical table formation.

5. Differentiate between simple random sampling and systematic sampling.

6. Find the fitting line equation through the least square method of the following table using X as the independent variable. Also find the value of Y when $X = 16$ 4+1

X	5	10	15	20	25	30
Y	15	17	22	24	30	34

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Turn Over

7.   From the following data determine in which firm A or B, there is greater variability in individual wages.

	Firm A	Firm B
Average daily wage	Rs. 52.50	Rs. 47.50
Variance of distribution of wages	100	121

8.   Using a suitable formula calculate median value from the following data:

Mid Value	135	145	155	165	175	185
Frequency	48	72	116	60	38	22

9.   What is cumulative frequency? Mention uses of cumulative frequency.

GROUP-C

Answer any *five* questions from the following   2×5 = 10

10.   What is semi quartile range?

11.   Define 'population' in statistics.

12.   Why do we analyse time series data?

13.   Differentiate between interval and ratio data with examples.

14.   What is relative frequency?

15.   Define sampling frame.

16.   The weight (in kilogram) of a group of boxes are 9, 10, 11, 14. What is the mean deviation?

17.   Why do we use relative measures of dispersion instead of absolute measures?

18.   What are the components of a statistical table?

FOR TRUNCATED SYLLABUS
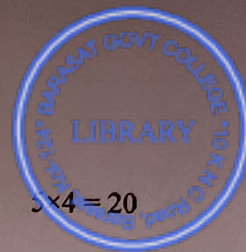
GROUP-A

Answer any *one* question from the following   10×1 = 10

1.   Discuss the sources of geographic data for statistical analysis. Explain the significance of quantitative analysis in geography.   4+6

2.   What are the advantages of rank correlation? Explain the uses of regression analysis in geographical study with suitable examples.   4+6

GROUP-B

Answer any *four* questions from the following   5×4 = 20

3. Distinguish between absolute and relative measures of dispersion.

4. What is stratified sampling? In which situation is it considered suitable?   3+2

5. Distinguish between primary and secondary data with suitable examples.

6. Differentiate between measures of central tendency and measures of dispersion.

7. Highlight the differences between nominal and ordinal forms of data with suitable examples.

8. Using a suitable formula calculate median value from the following data:

Mid value	135	145	155	165	175	185
Frequency	48	72	116	60	38	22

GROUP-C

Answer any *five* questions from the following   2×5 = 10

9. What is a variable?

10. Mention two uses of cumulative frequency.

11. Differentiate between class boundary and class limit.

12. What are the disadvantages of random sampling?

13. What is quartile deviation?

14. Mention the demerits of median.

15. Define 'population' in statistics.

16. What is time series data?

17. What are the components of a statistical table?

18. What do you understand by bimodal distribution? Give examples.

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2021-22

GEOACOR05T-GEOGRAPHY (CC5)

CLIMATOLOGY

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.

CATEGORY-A

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

1. What do you understand by inversion of temperature? Discuss its different types with suitable sketches.   2+8

2. Define precipitation. Discuss Bergeron-Findeisen theory of raindrop formation with suitable diagram.   2+8

CATEGORY-B

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

3. Differentiate between normal lapse rate and adiabatic lapse rate.

4. Describe the structure of tropical cyclone with special mention of Sea Surface Temperature.

5. Account for the formation of Ozone hole over Antarctica and suggest measures to minimise it.

6. Discuss briefly the stages of Index Cycle.

7. Discuss the major factors that affect the Heat Budget of the atmosphere.

8. List the basic parameters for classification of world climate by Koppen.

9. How does the Earth's Atmosphere act as a 'Green House'?

CATEGORY-C

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

10. Define Albedo.

11. How does Sunspot affect Insolation?

12. What is the role of an 'eye' in the development of a tropical cyclone?

13. What is Mesopause?

14. Mention the characteristics of weather associated to Mid-Latitude Cyclones.

15. What are Rossby Waves?

16. What do you understand by the Latent Heat of Condensation?

17. Define Airmass.

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2021-22

GEOACOR06T-GEOGRAPHY (CC6)

Time Allotted: 2 Hours   Full Marks: 50

The figures in the margin indicate full marks.
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All symbols are of usual significance.

CATEGORY-A

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

1. Divide India into various soil zones and discuss the geographical factors responsible for their formation.   10

2. Describe the different regional problems of the Darjeeling region and their impacts.   10

3. Critically examine National Population Policy - 2000 and state its relevance in the present demographic stage of India.   6+4 = 10

CATEGORY-B

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

4. Briefly discuss the geomorphic features of Terai regions.

5. Discuss the characteristics of Indian Monsoon.

6. Account for the problems and recent changes faced by the Toda.

7. Briefly discuss the positive impact of green revolution in North India.

8. Mention the present scenario of Automobile industry in India.

9. Briefly discuss the distribution of oil refineries in India.

10. Explain the impact of cyclones and coastal surges over life and livelihood of people of Sundarban.

CATEGORY-C

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

2×5 = 10

11.   In which geological age was the Karewa series formed and where is it seen?

12.   What is 'Pat' area?

13.   Mention the physiographic features of 'Moribund Delta' of West Bengal.

14.   What is 'Burst of Monsoon'?

15.   What is IT Park?

16.   Which state of India possess highest density of population (2011 Census) and why?

17.   What are the major problems associated with coal mining in West Bengal?

18.   State the negative impact of tourism activities on Jarwas.

19.   What is *'Dampier-Hodges line'* ?

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लक्ष्यं विश्वमानम्

WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2021-22

GEOACOR07T-Geography (CC7)

Time Allotted: 2 Hours   Full Marks: 40

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All symbols are of usual significance.

GROUP-A

Answer any *one* question from the following   10×1 = 10

1. Define standard deviation and coefficient of variation. Discuss their relative advantages and disadvantages.   4+6

2. Define sampling with a suitable example. Discuss the various methods of random sampling.   2+8

GROUP-B

Answer any *four* questions from the following   5×4 = 20

3. Differentiate between questionnaire and schedule.

4. Define nominal scale and ordinal scale.

5. Distinguish between correlation and regression.

6. Write a note on normal distribution.

7. What are the advantages and disadvantages of median? Discuss.

8. Calculate Spearman's rank correlation co-efficient from the given data:

Student ID	S15	S11	S23	S19	S14
Marks in Physics	75	69	91	54	66
Marks in Mathematics	81	83	77	65	57

9. Discuss how time series analysis is useful in Geography.

GROUP-C

Answer any *five* questions from the following

2×5 = 10

10. Define Statistics.

11. Describe interval scale.

12. Differentiate class limit from class boundary.

13. What are sampling errors?

14. What is a Scatter Diagram?

15. Define non-linear regression.

16. What is moving average?

17. Define probability.

18. What is product moment correlation?

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

GEOACOR05T-GEOGRAPHY (CC5)

CLIMATOLOGY

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.

CATEGORY-A

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

1. Discuss the layers of the atmosphere with special reference to the importance of Ozonosphere.   7+3

2. Discuss the formation of Mid-Latitude Cyclones. Discuss the 'Eye' of a Cyclone.   8+2

CATEGORY-B

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

3. Explain the Latitudinal Heat Balance.

4. What are the major types of inversion of temperature?

5. Classify the Air masses mentioning the bases of such classification.

6. Give a detailed account on Green House Effect with special reference to CFCs.

7. What do you understand by Stability and Instability of Atmosphere?

8. Discuss in brief the tri-cellular model with special reference to Hadley Cell.

9. How does Aw Climate differ from Af Climate?

CATEGORY-C

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

10. What is the break in monsoon?

11. Define Hygroscopic Nuclei.

12. Why does pilot prefer to fly through Stratosphere?

13. Mention briefly the factors of Insolation.

14. What is ITCZ?

15.   Discuss the basis of climatic classification by Koppen.

16.   What do you understand by Potential Evapotranspiration?

17.   Briefly discuss how does Jet Stream influence Indian Monsoon.

18.   What is SMOG?

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

GEOACOR06T-GEOGRAPHY (CC6)

Time Allotted: 2 Hours   Full Marks: 50

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.

CATEGORY-A

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

1. State the basic features of Indian Monsoon. Describe the climatic regions of India proposed by L. D. Stamp.   3+7

2. Describe the habitat and community life of Toda tribe and discuss the effect of *Sanskritization* on their life.   7+3

3. Describe the location and extent of Indian Sundarban. Analyse the problems of life and livelihood specific to the people of Sundarban.   3+7

CATEGORY-B

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

4. Discuss with examples what do you understand by potential regions and problematic regions.

5. Briefly discuss the causes and effects of salinity and alkanity of North-Western India.

6. Discuss the contribution of migration to the population growth in India with special reference to West Bengal and Assam.

7. Mention the negative impact of green revolution in India.

8. Discuss the locational characteristics of iron ore and coal mines in Chota Nagpur plateau.

9. 'Darjeeling hill is a landslide prone area' — Explain.

10. Mention the present scenario of IT industry in India.

CATEGORY-C

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

11. What is syntaxial bend of the Himalaya?

12. Distinguish between *Malnad* and *Maidan*.

13. Which type of soil found in western part of Madhya Pradesh? Mention two characteristic features of that soil.

14. Define agricultural region.

15. State the origin of *Jarwa* tribe.

16. Why 1921 has been termed as *great divide* in the history of Indian population?

17. Mention the subject matter of the act passed by the government of West Bengal to reduce fast depletion of ground water resource.

18. Which district of West Bengal possess lowest density of population and why?

19. Which river creates the western boundary of Darjeeling Himalaya? Name the person who introduced tea plantation in Darjeeling.

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

GEOACOR07T-GEOGRAPHY (CC7)

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.

GROUP-A

Answer any *one* question from the following   10×1 = 10

1. Elaborate upon the sources of geographical data for statistical analysis.   10

2. Define mean, median and mode. Compare their relative advantages and disadvantages.   3+7

GROUP-B

Answer any *four* questions from the following   5×4 = 20

3. State the significance of statistics in Geography.

4. Briefly explain the different parts of an ideal statistical table with a proper diagram.

5. Write a brief note on the different scales of measurement.

6. Differentiate stratified sampling from clustered sampling.

7. The production of fertilizers (in lakh tons) from 1997-98 to 2005-06 is given in the following table. Calculate the trend using 3 year moving average.

Year	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production of fertilizer in lakh tons	130.62	136.21	142.98	147.04	146.28	144.74	142.66	154.05	155.73

8. What are the advantages and disadvantages of mean deviation? Discuss.

9.   Distinguish between Class Limit and Class Boundary with suitable examples.

GROUP-C

Answer any *five* questions from the following   2×5 = 10

10.   What are the various methods for collection of primary data?

11.   What factors should be considered while deciding upon the sample size?

12.   What is meant by regression in statistics?

13.   Differentiate between variable and attribute.

14.   What are partition values?

15.   Differentiate between population and sample.

16.   State the importance of Coefficient of Variation.

17. $r = 0.75$. Interpret the correlation.

18.   In equation $Y = a + bx$, what does '*a*' and '*b*' stand for?

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WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2019

GEOACOR05T-GEOGRAPHY (CC5)

CLIMATOLOGY

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.

CATEGORY-A

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

1. Discuss the structure and composition of the atmosphere. What is meant by inversion of temperature?   7+3 =10

2. What is condensation? Mention different forms of condensation. Describe the ice-crystal theory of raindrop formation.   2+3+5=10

CATEGORY-B

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

3. What do you understand by the heat budget of the earth?
4. Describe the Index-Cycle of a Jet stream.
5. Distinguish between barotropic and baroclinic conditions of the atmosphere.
6. How does the location of monsoon trough influence wind direction in India?
7. Differentiate cTwu airmass and mPks airmass.
8. Discuss the tri-cellular model in atmosphere in brief.
9. Discuss the role of frontogenesis in the formation of mid-latitude cyclones.

CATEGORY-C

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

10. What do you mean by Insolation?
11. What is the Hadley cell?
12. What is meant by the 'Ozone hole'?
13. What is the 'eye' of a cyclone?
14. Distinguish between Bw and Bs climates.
15. Differentiate between dry and wet adiabatic lapse rates.
16. What is geostrophic wind?
17. Describe the relationship between thermal gradient and wind movement.
18. What is meant by an occluded front?

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सत्यं विश्वधानम्

WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2019

GEOACOR06T-GEOGRAPHY (CC6)

Time Allotted: 2 Hours

Full Marks: 50

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.

CATEGORY-A

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

1. Explain the causes of uneven distribution of population in India. Analyse the factors of low population growth rate in Kerala. 7+3=10

2. Outline the basis of economic regionalization of India as postulated by P. Sengupta with suitable examples. 10

3. Briefly describe the physiographic divisions of West Bengal. Illustrate the environmental problems faced by the people of Sundarban region. 6+4=10

CATEGORY-B

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

4. Discuss the livelihood characteristics of Jarwa tribe.
5. Delineate different types of soil zones in India with suitable diagram.
6. Explain the economic and socio-political issues of Darjeeling Hills.
7. Highlight the major components of India's Population Policy.
8. Highlight the availability and commercial use of forest resources in northern districts of West Bengal.
9. How did the growth of information technology has given a thrust to the industrial scenario of India?
10. Account for the distribution of natural gas in India.

CATEGORY-C

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

11. What is 'western disturbances'?
12. Mention the characteristics of retreating monsoon.
13. State the economic activities of the Toda tribe.
14. Define human development.
15. What are the challenges faced by the automobile sector of India in recent time?
16. Write the importance of petroleum.
17. State the reasons for the growth of mangrove vegetation in Sundarbans.
18. Briefly outline the geographical distribution of Santal tribes.
19. Discuss the measures adopted by India for reducing the growing trend of deforestation.

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WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2019

GEOACOR07T-GEOGRAPHY (CC7)

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.

GROUP-A

Answer any *one* question from the following

$10 \times 1 = 10$

1. How does probability sampling differ from non-probability sampling? Explain the types of probability sampling techniques with numerical examples. $3+7 = 10$

2. Define 'Arithmetic Mean (AM)', 'Geometric Mean (GM)' and 'Harmonic Mean (HM)' and compare their relative advantages and disadvantages. $6+4 = 10$

GROUP-B

Answer any *four* questions from the following

$5 \times 4 = 20$

3. Calculate 7th decline and 65th percentile from the following data: $4+1 = 5$

Wages (Rs.) / day	150	200	250	300	500	1000	1800
No. of workers	20	40	50	70	30	15	2

What is difference between percentage and percentile?

4. What is standard error? Differentiate between mean deviation and standard deviation. $2+3 = 5$

5. Derive the linear regression equations of y on x and x on y. 5

6. Mention different types of sampling. Explain with example Simple random sampling with replacement and without replacement. 5

7. Mention the merits and demerits of moving average methods for determining trend in the analysis of time series. 5

8. Differentiate between linear and non-linear regression. Find the standard LIB3+2 deviation of the following table:

x	10	20	30	40	50
f	9	18	25	7	5

9. Mention the difference between discrete and continuous variable. Explain with   3+2 = 5
example the uses of Rank correlation.

GROUP-C

Answer any *five* questions from the following   2×5 = 10

10. What is normal curve?

11. Distinguish between nominal and ordinal scale of measurement.

12. Mention merits and demerits of modal values.

13. Explain different methods of collection of qualitative and quantitative data.

14. What are the differences between sample and population data?

15. What are the uses of stratified sampling?

16. Mention different types of correlation with example.

17. Define frequency density and relative frequency.

18. What is sample error?

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