



**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?

**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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**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.  
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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. 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 alkalinity 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

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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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