



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.

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, 2021-22

GEOACOR06T-GEOGRAPHY (CC6)

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

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. 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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