UNIVERSITY OF NORTH BENGAL

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

CC5-GEOGRAPHY (305)

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.

SECTION-I

1. Answer any ***five*** questions from the following: 1×5 = 5

   (a) Environmental Lapse Rate (E.L.R)
   (b) Solar Wind
   (c) G layer of atmosphere
   (d) Albedo
   (e) Buys Ballot Law
   (f) Noctilucent cloud
   (g) Dew Point
   (h) MONEX.

SECTION-II

2. Answer any ***three*** questions from the following: 5×3 = 15

   (a) Differentiate between absolute humidity and relative humidity. 5
   (b) What are the salient features of the Indian monsoon? 5
   (c) Give a brief account of factors controlling horizontal distribution of temperature on earth. 5
   (d) Explain the mode of origin of tropical cyclones with suitable diagrams. 5
   (e) Classify fogs according to their physical characteristics. 5

SECTION-III

3. Answer any ***two*** questions from the following: 10×2 = 20

   (a) Give a detailed account of the pressure belts and wind belts of the earth. 10
   (b) Give an account of the life cycle of an extra-tropical cyclone with suitable diagrams. 10
   (c) Define inversion of temperature and give an account of types of temperature inversion. 10
   (d) Divide the earth into different climatic regions according to the scheme suggested by Koppen. 10

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

CC5-GEOGRAPHY (PRACTICAL)

Time Allotted: 2 Hours | Full Marks: 20

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.

Answer *all* the questions

1. (a) Calculate the range of temperature from the given Maximum and Minimum thermometer. 3

   (b) Differentiate between Maximum and Minimum Thermometer and Dry and Wet Bulb Thermometer. 2

2. Interpret the given Indian Weather Map under the following heads: 6+6 = 12

   (a) Pressure gradient and wind velocity.

   (b) Sky condition and its relation with precipitation.

3. Laboratory Note book and Viva voce. 3

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

CC6-GEOGRAPHY (306)

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.

SECTION-I

1. Answer any ***five*** questions from the following: 1×5 = 5

   (a) Sample space
   (b) GDM
   (c) Variance
   (d) Universe
   (e) Discrete variable
   (f) Continuous series
   (g) Attribute
   (h) Correlation co-efficient.

SECTION-II

2. Attempt any ***three*** questions from the following: 5×3 = 15

   (a) What is the significance of statistics in geography? 5
   (b) Define probability and give a real life example involving probability. 5
   (c) Differentiate between uniform distribution and normal distribution. 5
   (d) What are the fundamental principles of sampling? 5
   (e) Explain the term 'bias' in sample survey. How can bias be eliminated? 5

SECTION-III

3. Answer any ***two*** questions from the following: 10×2 = 20

   (a) Define measurement. Make a classification of scales of measurements with examples. 2+8 = 10
   (b) Define geographical data matrix. What are the different types of geographical data matrix? 2+8 = 10
   (c) Explain the term sampling. Discuss random and stratified sampling. 2+8 = 10
   (d) What are the sources of data for geographers? Explain with examples. 10

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

CC6-GEOGRAPHY (PRACTICAL)

Time Allotted: 2 Hours | Full Marks: 20

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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.

1. The following table shows the size of certain units of firms according to the number of persons employed. Determine the area where the average size of firms is the largest. 6

No. of persons employed	Area "A" No. of Firms	Area "B" No. of Firms	Area "C" No. of Firms
40-50	3	3	1
50-60	12	4	1
60-70	18	10	8
70-80	16	12	3
80-90	14	8	5
90-100	6	9	7
100-110	19	13	6
110-120	13	9	7

2. The following table gives the distribution of marks obtained by students in two classes. 6

Calculate the coefficients of variation of the marks of the two classes.

Range of marks	No. of students	
	Class A	Class B
5-10	1	5
10-15	10	6
15-20	20	15
20-25	8	10
25-30	6	5
30-35	3	4

3. Find the product moment correlation between sales and expenses of the following 6 firms: 5

Firms	1	2	3	4	5	6
Sales	55	50	55	60	65	65
Expenses	11	13	14	16	16	15

4. Laboratory Note Book and Viva-Voce. 3

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UNIVERSITY OF NORTH BENGAL

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

CC7-GEOGRAPHY (307)

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.

SECTION-I

1. Answer any ***five*** questions from the following: 1×5 = 5

   (a) Main Boundary Thrust (MBT)
   (b) Northern Sarkars
   (c) Duns
   (d) Western Disturbances
   (e) Scheduled Caste (SC)
   (f) Social Forestry
   (g) Khari boli
   (h) BSNL.

SECTION-II

2. Answer any ***three*** questions from the following: 5×3 = 15

   (a) Give a brief account of the salient features of Lower Ganga Plain. 5
   (b) Write a short account on the influence of Southern Oscillations on monsoons in India. 5
   (c) Give a short account on the distribution of tropical deciduous forests in India. 5
   (d) Write a note on the effects of Green Revolution on production of rice in India. 5
   (e) Give a short account on the distribution of major language groups in India. 5

SECTION-III

3. Answer any ***two*** questions from the following: 10×2 = 20

   (a) Give an account of the major soil groups of India. Mention the areas where they are found. 10
   (b) What is the basis of physiographic regionalisation of India, as suggested by R.L. Singh? Mention the names of the physiographic zones. 10
   (c) Give an account of the development of automobile industry in India. What are the future prospects of this industry? 10
   (d) What is the basis of agricultural regionalization in India? Divide India into different agricultural regions and state their respective locations. 10

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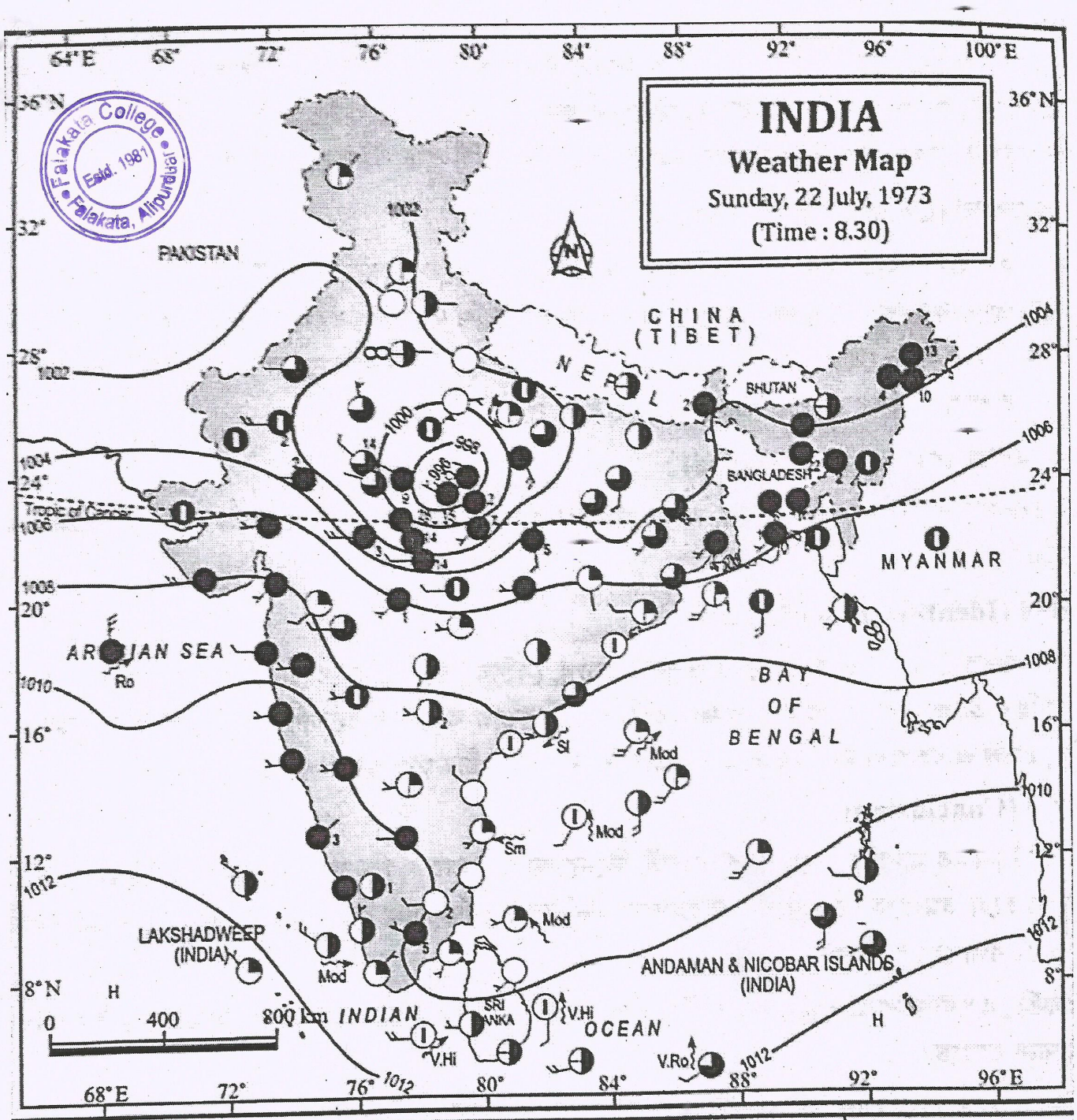

Wind :	= 5 Knots	= 10 Knots	= 50 Knots
Rainfall in cms.	— = 0.25 to 0.74 cms.		
	| = 0.75 to 1.49 cms.		

Cloud Amount

1/8 Sky	3/4 Sky
1/4 Sky	7/8 Sky
3/8 Sky	Overcast Sky
1/2 Sky	Sky Obscured
5/8 Sky	High Cloud

Weather

Haze	Squall	Rain
Dust Whirl	Dust or Sandstorm	Snow
Mist	Drifting Snow	Shower
Shallow Fog	Fog	Thunder Storm
Shallow Fog	Drizzle	Hail

Sea

W	Direction of Wave
Cm	Calm
Sm	Smooth
Sl	Slight
Mod	Moderate
Ro	Rough
V Ro	Very Rough
Hi	High
V Hi	Very High
Ph	Phenomenal

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CC7-GEOGRAPHY

Time Allotted: 2 Hours | Full Marks: 20

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All symbols are of usual significance.

Answer all the questions

1. Draw a temperature and rainfall graph of Tufanganj (2012) from the data given below and interpret it: 7

Months	Temperature (°C)	Rainfall (mm)
January	15.5	05
February	20.0	11
March	23.5	56
April	25.5	138
May	27.5	294
June	29.0	431
July	28.5	775
August	29.5	476
September	29.0	465
October	27.5	20
November	22.0	0
December	19.0	0

2. The following data shows the Total population and ST population of Mirik Municipality (2011). Draw Lorenz Curve and interpret it. 10

Ward No	Total population	ST population
1	1113	468
2	1247	414
3	1516	629
4	1096	122
5	857	283
6	982	616
7	1319	551
8	1856	308
9	1176	519

3. Laboratory Note Book and Viva Voce. 3

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