

2020

GEOGRAPHY (Honours)

Paper : GEOH DC-5A

(CBCS)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *one* question of the following : 10×1=10

1. Analyse the factors effecting atmospheric insolation process. Estimate and explain incoming atmospheric heat budget. What is greenhouse effect? 4+4+2
2. Explain the mechanism of formation of precipitation condition according to Bergeron-Findeisen. Compare relative humidity with absolute humidity. 8+2

Group - B

Answer any *three* questions of the following : 5×3=15

3. Explain the process of Ozone layer formation. What is Ozone depletion? 3+2
4. Distinguish between the process of frontogenesis and frontolysis. What is Chinook? 4+1
5. Construct relationship between normal lapse rate and adiabatic lapse rate. 5

6. Write the merits and demerits of Koeppens's scheme of climatic classification. 5
 7. Discuss the development of a tropical cyclone. 5
 8. Discuss the effect of monsoon on Indian climate. 5
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2020

GEOGRAPHY (Honours)

Paper : GEOH DC-6A

CBCS

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *one* question of the following : 10×1=10

1. Define Population & Sampling terms used in the science of statistics. Write about two merits & demerits of Sampling. Write about difference between Stratified and Cluster Sampling. 3+2+5
2. What do you know about correlation in statistics? Discuss about the various types of correlation. Write difference between correlation coefficient & coefficient of regression. 2+5+3

Group - B

Answer any *three* questions of the following : 5×3=15

3. What do you mean by dispersion of a frequency distribution? Define some of the common measures of dispersion. 1+4
4. Write about the significance and necessity of the analysis of Time-Series data. 5
5. What do you know about measure of central tendency. Define Quartiles and discuss its significance. 1+4

6. What is data? Write about major differences between primary data and secondary data. 2+3
 7. Write about major merits and demerits of Ogive curves. Give an example of each Univariate data and Bivariate data. 4+1
 8. Write about major differences between variance and co-efficient of variation with examples. 5
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UGB Semester-III (CBCS) H/ Pr/ 2020 (N)

2020

Geography (H)

Paper DC5B, DC6B, & DC7B

(Practical)

Full Marks: 45

Time: Four Hours

The figures in the margin indicate full marks

DC5B

1. Write down the steps of measuring the relative humidity from the hygrometer? calculate relative humidity based on the following table. 3+2 = 5

Dry-bulb temperature (°C)	Wet-bulb temperature (°C)
31.7	24.5

2. What is the function of rain gauge? 1
3. What is the purpose of using maximum and minimum thermometer? 2
4. Identify the season of the given weather Map by giving a proper explanation? 2
5. What do you mean by Trough and Ridge in atmospheric condition? 2
6. What is the full form of IMD? 1
7. Laboratory notebook and Viva-voce 2

DC6B

8. Define variable. What is the difference between continuous variable and discrete variable? 1+2 = 3
9. Find out the median from the following data: 2
12, 11, 9, 8, 7, 14, 23, 15, 21, 45, 54, 32, 22, 16, 19, 32, 24, 14, 19, 16, 23, 22, 33
10. Which of the following measures of central tendency is not influenced by extreme values in the data set? I) Mean, II) Median 1
11. From the frequency distribution table (Table-1) calculate mid values and relative frequency. Draw frequency polygon taking mid values at X-axis. 2+2+3=7
12. Laboratory notebook and Viva-voce 2

Table-I: Weekly salary of 140 workers

weekly wages (\$)	No of workers
1-10	15
10-20	35
20-30	56
30-40	23
40-50	9
50-60	2

DC7B

13. Draw a climograph (after Taylor) based on the following data and interpret the nature of climate with respect to human comforts 4+2

Table 2: Monthly temp and humidity of Malda, 2011

Month	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Temp (°F)	66.8	67.8	70.9	78.8	82.0	85.5	82.8	83.0	80.2	77.9	67.8	66.9
RH %	40	44	38	39	57	79	86	80	77	78	49	48

14. Mention the use of ergograph. 2
15. Write down the characteristics of the following rocks and minerals:
 Calcite, feldspar, granite 5
16. Laboratory notebook and Viva voce 2

Links for answer script submission: <https://forms.gle/towkMLupuo2368Di9>

Note: In case of facing problem with the following link send to the mail id: gmgeographyexam@gmail.com

Dry Bulb (°C)	Number of degrees difference between the wet- and dry-bulb readings (°C)									
	1	2	3	4	5	6	7	8	9	10
10	88%	77	66	56	45	35	26	16	7	--
11	89	78	67	57	47	38	28	19	11	2
12	89	79	68	59	49	40	31	22	14	5
13	89	79	69	60	51	42	33	25	16	9
14	90	80	70	61	52	43	35	27	19	11
15	90	80	71	62	54	45	37	29	22	14
16	90	81	72	63	55	47	39	31	24	17
17	91	82	73	64	56	48	41	33	26	19
18	91	82	73	65	57	50	42	35	28	21
19	91	82	74	66	58	51	44	37	30	24
20	91	83	75	67	59	52	45	38	32	26
21	91	83	75	68	60	53	47	40	34	27
22	92	84	76	69	61	54	48	41	35	29
23	92	84	77	69	62	56	49	43	37	31
24	92	84	77	70	63	57	50	44	38	32
25	92	85	77	71	64	57	51	45	40	34
26	92	85	78	71	65	58	52	46	41	35
27	93	85	78	72	65	59	53	47	42	37
28	93	86	79	72	66	60	54	49	43	38
29	93	86	79	73	67	61	55	50	44	39
30	93	86	80	73	67	61	56	50	45	40
31	93	86	80	74	68	62	57	51	46	41
32	93	87	80	74	68	63	57	52	47	42
33	93	87	81	75	69	63	58	53	48	43
34	93	87	81	75	69	64	59	54	49	44

