

PRACTICAL QUESTION BANK

B.A. II-Semester (CBCS)

Subject : Geography

Paper – II (DSC) : Elements of Climatology and Oceanography

Unit – I

Sources of Data:

- 1 What are the types of data? Explain its advantages and disadvantages.
- 2 What is tabulation of data? Discuss different parts of table.
- 3 Explain various types of sampling techniques.
- 4 In a survey of 35 families in a village, the no.of children per family was recorded and following data obtained:

1	0	2	3	4	5	6
7	2	3	4	0	2	5
8	4	5	12	6	3	2
7	6	5	3	3	7	8
9	7	9	4	5	4	3

Represent the data in the form of a discrete frequency distribution.

- 5 The marks obtained by 50 students are given below:

31	13	46	31	30	45	38	42	30	9
30	30	46	2	41	44	36	18	29	63
44	30	19	5	44	15	7	25	12	30
6	22	24	37	15	6	39	32	21	20
42	31	19	14	23	28	17	53	22	21

Construct a grouped frequency distribution with width of each class interval as 10, 64 using exclusive method of classification.

- 6 Count the no. of letters in each word of paragraph given below (ignoring comma, full stop etc.) and prepare a discrete frequency distribution.
 “Today, to a very striking degree, our culture has become a statistical culture. Even a person, who may never have heard of an index number, is attached in an intimate fashion by the gyrations of those index numbers which describes the cost of living”.
- 7 What do you mean by primary sources of data? Enumerate five sources of secondary data.
- 8 In a class of 35 students of geography, following marks were obtained out of 10 marks in unit test.
 1, 0, 2, 3, 4, 5, 6, 7, 2, 3, 4, 0, 2, 5, 8, 4, 5, 3, 3, 6, 2, 7, 8, 6, 5, 4, 3, 7, 8, 9, 7, 9, 4, 5, 4, 3.
 Represent the data in the form of a group frequency distribution.

Unit – II
Measures of Central Tendency

- 1 What do you mean by measure of central tendency? What are the types of averages?
- 2 What is mean? Discuss its merits and demerits?
- 3 Define mode. Explain merits and demerits of it.
- 4 From the following data compute the Arithmetic mean by step deviation method.

Marks	0 - 10	10 - 20	20 - 40	40 - 50	50 - 60
No. of students	5	10	25	20	10

- 5 Calculate Median for the following data:

Class	0 – 5	5 - 10	10 - 15	15 - 20	20 - 25
No. of students	5	10	15	12	8

- 6 Find the value of mode from the data given below:

Weight (Kg)	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
No. of students	2	5	12	17	14	6	3	1

7 Calculate the mode from the following data:

S.No.	Class-Interval	frequency
1	0-10	3
2	10-20	5
3	20-30	7
4	30-40	10
5	40-50	12
6	50-60	15
7	60-70	12
8	70-80	06
9	80-90	02
10	90-100	08

8 Calculate the median value in continuous series from given data:

S.No.	Class-Interval	frequency
1	5-10	7
2	10-15	15
3	15-20	24
4	20-25	31
5	25-30	42
6	30-35	23
7	35-40	20
8	40-45	20
9	45-50	10

Unit – III
Measures of Dispersion

- 1 Calculate the mean deviation from following data by finding Median, Mean deviation and Coefficient of mean deviation.

x	10	11	12	13	14
f	3	12	18	12	03

- 2 Calculate mean deviation from mean and median and also coefficient of mean deviation (individual series)

Age: 22, 34, 11, 21, 16, 29, 42

- 3 Calculate the standard deviation by continuous series / discrete series method and also calculate mean.

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
frequency	5	12	30	45	50	37	21

- 4 What do you mean by measures of dispersion and what are the methods of studying variations?
- 5 Explain the difference between mean deviation and standard deviation.
- 6 What are merits and demerits of standard deviation?
- 7 What do you mean by mean deviation and what are its merits and demerits?
- 8 Find out the standard deviation for the following data:

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of persons dying	15	15	23	22	25	10	5	10

Unit – IV
Correlation (Karl Pearson & Spearman)

- 1 What is correlation? Explain the types of correlation with the help of an example.
- 2 Find out that, is there any relationship between age and blood pressure? Calculate the Karl Pearson coefficient of correlation.

X (ages)	52	63	45	32	72	65
Y (Blood Pressure)	82	93	100	120	83	80

- 3 Find out that, is there any relationship between advertisement expenditure and sales? Calculate Karl Pearson coefficient of correlation:

Advt. exp in lakhs (X)	52	63	65	70	76	80	78
Sales in crores (Y)	14	16	18	20	24	30	32

- 4 Find the Spearman's rank correlation from the following data:

X	87	22	33	75	37
Y	29	63	52	46	48

Unit – V Weather Map

- 1 Write about construction and working principle of wet and dry bulb thermometer.
- 2 Write about construction and working principle of rain gauge.
- 3 Write about construction and working principle of wind vane.
- 4 Describe the weather conditions over India with the help of given January weather map of India.
- 5 Describe the weather conditions over India with the help of given July weather map of India.
- 6 Describe the weather conditions over India with the help of given October weather map of India.
- 7 Write the difference between weather and climate.
- 8 Explain various types of clouds.
- 9 Write short note on :
 - (a) Pressure gradient
 - (b) Cyclone
 - (c) Temperature Anomaly
 - (d) Front and its types
 - (e) Isobars / Isotherms
- 10 Draw the weather symbols for given following data:
 - (a) Rain (b) Snow (c) Wind (d) Breeze (e) Rainbow (f) Continuous rainfall
 - (g) Dew (h) frost (i) Sunshine
