

PRACTICAL III: MAPS AND DIAGRAMS

1. Construct a line graph to represent the data as given in Table

Growth rate of Population in India – 1901 to 2011

Year	Growth rate in percentage
1901	-
1911	0.56
1921	-0.30
1931	1.04
1941	1.33
1951	1.25
1961	1.96
1971	2.20
1981	2.22
1991	2.14
2001	1.93
2011	1.79

2. Construct a polygraph to compare the growth of sex-ratio in different states as given in the Table

Sex-Ratio (Female per 1000 male) of Selected Sates – 1961-2011

States/UT	1961	1971	1981	1991	2001	2011
Delhi	785	801	808	827	821	866
Haryana	868	867	870	860	846	877
Uttar Pradesh	907	876	882	876	898	908

Source : Census, 2011

3. : Construct a simple bar diagram to represent the rainfall data of Thiruvananthapuram as given in Table

Average Monthly Rainfall of Thiruvananthapuram

Months	J	F	M	A	M	J	J	A	S	O	N	D
Rainfall in cm	2.3	2.1	3.7	10.6	20.8	35.6	22.3	14.6	13.8	27.3	20.6	7.5

4. Construct a suitable bar diagram to show decadal literacy rate in India during 1951–2011 as given in Table

Literacy Rate in India, 1951-2011 (in %)

Year	Literacy Rate		
	Total population	Male	Female
1951	18.33	27.16	8.86
1961	28.3	40.4	15.35
1971	34.45	45.96	21.97
1981	43.57	56.38	29.76
1991	52.21	64.13	39.29
2001	64.84	75.85	54.16
2011	73.0	80.9	64.6

Source : Census, 2011

5. Represent the following data with help of pie-diagram.

India : Land use 1951-2001

	1950-51	1998-2001
Net Sown Area	42	46
Forest	14	22
Not available for cultivation	17	14
Fallow Land	10	8
Pasture and Tree	9	5
Culturable Waste Land	8	5

6. Construct a Choropleth map to show the percentage of production of rice in States.

Area and Production of Rice in major States

<i>States</i>	<i>Area in 000 ha</i>	<i>% to total area</i>	<i>Production 000 tones</i>	<i>% to total production</i>
West Bengal	5,435	12.3	12,428	14.6
Uttar Pradesh	5,839	13.2	11,540	13.6
Andhra Pradesh	4,028	9.1	12,428	13.5
Punjab	2,611	5.9	9,154	10.8
Tamil Nadu	2,113	4.8	7,218	8.5
Bihar	3,671	8.3	5,417	6.4

7. What is an Isopleth map? How an interpolation is carried out?
 8. Describe and illustrate important steps to be followed in preparing a Choropleth map.
 9. Discuss important steps to represent data with help of a pie-diagram.
 10. What are the requirements to construct a dot map?
 11. Describe the method of constructing a traffic flow map.
 12. Construct a dot map to show the production of rice in each State.

Area and Production of Rice in major States

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Andhra Pradesh	12,428	13.5
Punjab	9,154	10.8
Tamil Nadu	7,218	8.5
Bihar	5,417	6.4