

- Instructions:** i. Q.1, Q.2 and Q.7 is compulsory
ii. Solve any **Three** from Q.3 to Q.6
iii. Figures to the right indicate full marks.
iv. Draw map, sketch and diagrams wherever necessary

Q.1 Answer the following (Any Two) (2x4 = 08)

- A. Define Data, types and sources with examples
B. Define the 'Schedule method' and describe the merits and demerits?
C. Discuss the significance and nature of transportation data

Q.2 Write the Short note (Any Two) (2x4 = 08)

- A. Define the sample and methods of sampling techniques
B. Probability sampling methods with examples
C. Discuss the significance and nature of industrial data

Q.3 Construct a Pie diagram to by using following data and interpret the result.

(1x 8 = 8)

Table:1 Taluka wise daily workers in large scale industries in Goa (2015)

Sr.No	Taluka	No. of Workers
1	Tiswadi	1064
2	Bardez	3899
3	Pernem	394
4	Bicholim	2651
5	Sattari	1234
6	Ponda	7664
7	Sanghem	865
8	Salcet	1246
9	Marmagoa	14502

Q.4 Prepare the Multiple bar graph method to represent following Industrial Geo-statistical data and interpret the result.

(1x 8 = 8)

Table:2 Taluka wise North Goa Industrial Working unit (2012)

Sr.No	Taluka	Working Unit	Closed Unit
1	Pernem	145	103
2	Sattari	130	115
3	Bicholim	245	284
4	Bardez	581	852
5	Ponda	564	664
6	Tiswadi	239	554

Q.5 Prepare flow diagram using following statistical data and interpret the result.
(1x 8 = 8)

Table 3: Bus-Transportation monthly frequency from Panaji Stand

Sr.No	Bus Route	Frequency
1	Panaji-Mapusa	328
2	Panaji-Margao	460
3	Panaji – Ponda	360
4	Panaji – Valpoi	200
5	Panaji – Sangem	165
6	Panaji – Bicholim	125
7	Panaji - Vasco	385

Q.6 Construct a Choropleth map by using following Geo-statistical data and interpret the result
(1x 8 = 8)

Table 4: Taluka wise Agriculture net sown area (in Ha.) in Goa (2013-14)

Sr.No	Taluka	Area	Sr.No	Taluka	Area
1	Tiswadi	10801	7	Sanghem	10500
2	Bardez	15872	8	Dharbandora	3359
3	Pernem	14301	9	Canacona	9646
4	Bicholim	11168	10	Quepem	9981
5	Sattari	14166	11	Salcet	16666
6	Ponda	10398	12	Marmagoa	2348

Q.7 Journal and Viva

(5 x 2 = 10)

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