SEMESTER-1 (HONS.) GEO-A-CC-2-P GEOTECHTONICS AND GEOMORPHOLOGY TOPIC :3

DOT AND SPHERE DIAGRAM

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- Dot and Sphere Diagram is generally used to represent Rural and Urban population respectively at one go. However dots can be used separately and sphere can be used separately in different diagrams to represent other aspects.
- generally Sphere are 3 dimensional diagrams comprising a series of sphere proportional in size to the quantities they represent.
- Volume of a sphere for a representable item is directly proportional to the quantity of the item it represents.



• Calculation of radius of a sphere to represent urban population

sphe z v y som Rb

- VV

- Formula for volume of sphere= $\frac{4}{3}\pi r^3$
- So; $\frac{4}{3}\pi r^3$ = volume of sphere
- Or $\frac{4}{3}\pi r^3$ = urban population
- Or $\pi r^3 = \frac{4}{3} \times$ urban population
- Or $\pi = \sqrt[3]{\frac{(3xU \cdot P)}{4\pi}}$
- Where u.p.=urban population(in given sum)





DOT AND SPHERE We know, volume of sphere $= \frac{4}{3}\pi r^{3}$ or, Volume of sphere = urban population (u.P.) or, $\frac{4}{3}\pi r^{3} = u.P.$ $\therefore r = 3 \frac{u.P.s}{4\pi}$

Step-11

Step-1

distries	Rural Population	Selected Seale	No. of the dots ()	Urban Population	1=3)U-6x3	Selected	Radii of the
Darjiling Pulhazar	15225	1 dot (·) = 5000 Rural Repulsion	3	-			-
Rangli Rangliot	5202		1	_	-	1 cm. = 20 Umit	-
love bunawl suka Pokhra	89663		18	28885	19.03		0.95
Kalingpong -1	36645		7	3533	9.45		0.47
Kaling Porg-11	52.836		11	29044	19.07		0.95
iorubatham	29402		6	-	-		-
iliguri Waxalbai	72467		14	8708	12.76		0.54
nirik	107464		16	-			-
haribari fornsedela	78232		21	4378	10.15		0.31
Curseona	51646		10	-	-		-
				calculation for Graphical Scale	30000	19.28	0.90
					16750	13.87	0.7
					3300	9.40	2 0.4

- References:
- Sarkar, A. 2015. PRACTICAL GEOGRAPHY: A SYSTEMETIC APPROACH.
- MONKHOUSE, F.J. WILKINSON, H.R. 1971 MAPS AND DIAGRAMS: THEIR COMPILATION AND CONSTRUCTION