

- ① Draw a random sample of size 10, (from (without replacement) from the following data, stating clearly the procedure followed by you:

45	24	43	17	5	28	27	21	11
33	26	24	14	34	21	25	48	35
26	27	35	08	30	26	30	28	21
20	13	23	36	38	20	25	31	24

You may use the random sampling numbers given below:

5967	8941	7989	3335	7577	9735
3042	8409	7053	5364	5872	1143

- ② What are the main objects of sampling?
- ③ Distinguish between a population and a sample?
- ④ Define simple random sampling



Distinguish between simple random sampling with replacement and simple random sampling without replacement from a finite population.

⑤ Distinguish between simple random sampling and systematic sampling.

⑥ Here are some capital cities of India.

Hyderabad, Amaravati, Itanagar, Dispur, Patna, Raipur, Panaji, Gandhinagar, Chandigarh, Shimla, Srinagar, Jammu, Ranchi, Bangalore, Thiruvananthapuram, Bhopal, Mumbai, Imphal, Shillong, Aizawl, Kohima, Bhubaneswar, Chandigarh, Jaipur, Gangtok, Chennai, Hyderabad, Agartala, Dehradun, Lucknow, Kolkata, Port Blair, Silvassa, Daman, Delhi, Kanaratti, Pondichery.

Select 20% sample cities from the above using random number table.