

Reg. No. : .....

Name : .....

**VI Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./  
B.A. Afsal-UI-Ulama Degree (CCSS – Reg./Supple./Improv.)  
Examination, May 2013  
OPEN COURSE IN STATISTICS  
5D05/6D05 STA : Sampling Techniques**

Time: 2 Hours

Max. Weightage : 20

**PART – A**

This part consist of **two** bunches of questions carrying equal weightage of **one**.  
Answer **all** questions.

1

1. A \_\_\_\_\_ is a miniature picture of the entire group from which it has been taken.
 

a) Universe	b) Population
c) Sample	d) None of these
  
2. Population census data is a \_\_\_\_\_ data for an agency conducting a socio-economic survey.
 

a) Primary	b) Secondary
c) Reliable	d) Both (b) and (c)
  
3. Direct personal interview in collecting data is practical only when the no. of informants is \_\_\_\_\_.
 

a) Large	b) Small
c) Very large	d) Infinite
  
4. \_\_\_\_\_ sampling is preferred to simple random sampling when the population is heterogeneous.
 

a) Stratified	b) Systematic
c) Judgement sampling	d) Cluster

P.T.O.





- 16. Suppose N units in the population are numbered from 1 to N and we want to draw sample of size n where  $N = 1000$ ,  $n = 50$ . Find sampling interval K in forming systematic sample, if the first item selected is the 3<sup>rd</sup> one, which are the 2<sup>nd</sup> and 3<sup>d</sup> items.
- 17. What is cluster sampling ?
- 18. What are the merits of judgement sampling ? (6×1=6)

PART – C

Answer **any four** questions (2 each) :

- 19. Distinguish between primary and secondary data. What are the sources of secondary data ?
- 20. Explain lottery method to form a simple random sample.
- 21. The population measurements are 2, 3, 6, 8 and 11. Prepare all possible samples of size 2 using SRSWR.
- 22. Explain the laws which forms the basis of sampling.
- 23. Distinguish between linear and circular systematic sampling.
- 24. What are the merits and demerits of stratified random sampling ?
- 25. What are the main objectives of sampling ?
- 26. Discuss the role of Indian Council for medical research in formulating development policies of the nation. (4×2=8)

PART – D

Answer **any one** question :

4 each

- 27. Explain any two methods of collecting primary data.
- 28. What are sampling and non-sampling errors ? Explain the reasons behind them.
- 29. Describe the main functions of (1) Directorate of Indian Census (2) NSSO.

(1×4=4)

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