

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. III (Semester-V)
Session: - 2022 - 2023
Unit Test I**

**Name of the Teacher: - Dr.S.S.Paliwal
Subject :- Statistics (Paper- II)**

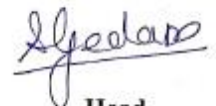
**Date: 11/10/2022
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks (out of 20)
1	AANCHAL GAIKWAD	A
2	AKSHADA GIRHE	13
3	ASHMI DATTA	A
4	BHAIRAVI CHAUHAN	9
5	BHAVNA GAIKWAD	10
6	CHARUSHREE MESHRAM	7
7	DHANSHREE NEHARE	10
8	HIMANSHI FULWANI	8
9	MADHVI SINGH	A
10	MANSI GOKHALE	7
11	MANSI HEDAHO	7
12	MAYURI MADANKAR	9
13	NAINAL SHANGONDAWAR	7
14	NEHA MOHATURE	13
15	NIKITA SAKHARKAR	12
16	POORVI GAJBHIYE	A
17	PORNIMA AWARI	A
18	PRIYA INGLE	14
20	RRENUKA CHORE	12
21	RINKU HATTEWAR	7
22	SAKSHI PURSWAMI	12
23	SAKSHI GUMGAONKAR	7
24	SAKSHI KALE	12
25	SEJAL SONULE	13
26	SHRADDHA WATH	A
27	SHRADDHA SALVE	11
28	SHRUTI KARANDE	15
29	SHRUSTI ZADE	15
30	TANVI KEDAR	10
31	VAISHNAVI DANGRE	A
32	VEDIKA POPHALI	13
33	VIDHI JAUHARI	7
34	VIDNYANI UMATHE	15
35	ADITYA GOUR	A
36	ARYAN PATIL	8
37	DIVYANSHU CHOUKSEY	15
38	JAYESH BORKAR	10
39	MRUNAL BENDARE	A
40	OM MANGLE	12

41	PIYUSH MESHAM	10
42	PRAJWAL ALONE	13
43	PREM HINGWE	13
44	RANJIT RAUT	10
45	ROUNAK KSHIRSAGAR	7
46	VISHNU JOSHI	A



Signature of Teacher



Head

Head

**Department of Statistics
Shivaji Science College
Congress Nagar, Nagpur.**

Bachelor of Science (B.Sc.) Semester—V Examination 2022
STATISTICS
Unit Test –I
Semester V Paper—II


Time : 45 minutes]

Maximum Marks : 20.

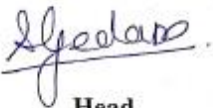
Date: 11/10/2022

NOTE: All questions carry equal marks

1. Describe the advantages of sample survey over complete enumeration method
- 2.. Describe the divisions and functions of C.S.O. and N.S.S.O.
3. Distinguish between SRSWOR and SRSWR.
4. Show that in case of SRSWOR :
 - (i) Sample mean is an unbiased estimator of population mean
 - (ii) Sample mean square is an unbiased estimator of population mean square


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**Department of STATISTICS
Class :- B. Sc. III (Semester-V)**

Session: - 2022 - 2023


Unit Test II

**Name of the Teacher: - Dr.S.S.Paliwal
Subject :- Statistics (Paper- II)**


**Date: 22/11/2022
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks (out of 20)
2	AKSHADA GIRHE	13
3	ASHMI DATTA	A
4	BHAIRAVI CHAUHAN	9
5	BHAVNA GAIKWAD	15
6	CHARUSHREE MESHRAM	8
7	DHANSHREE NEHARE	11
8	HIMANSHI FULWANI	15
9	MADHVI SINGH	7
10	MANSI GOKHALE	13
11	MANSI HEDAOO	11
12	MAYURI MADANKAR	A
13	NAINAL SHANGONDAWAR	10
14	NEHA MOHATURE	14
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18	PRIYA INGLE	7
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21	RINKU HATTEWAR	9
22	SAKSHI PURSWAMI	13
23	SAKSHI GUMGAONKAR	A
24	SAKSHI KALE	15
25	SEJAL SONULE	10
26	SHRADDHA WATH	A
27	SHRADDHA SALVE	13
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43	PREM HINGWE	15
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Bachelor of Science (B.Sc.) Semester—V Examination 2022

STATISTICS

Unit Test –II

Semester V Paper—II

Time : 45 minutes]

Maximum Marks : 20.

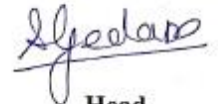
Date: 22/11/2022

NOTE: All questions carry equal marks

1. Derive an expression for the estimated gain in precision due to stratification
- 2.. Define proportional allocation and obtain the formula for variance of the sample mean under this allocation. Compare stratified sampling under proportional allocation with SRSWOR. Comment on the efficiency.
3. Obtain an expression for efficiency of cluster sampling with that of SRSWOR in terms of intraclass correlation coefficient..
- 4 For a population with linear trend $Y_i = \mu + \theta.i$ for $i = 1, 2, \dots, N$; find,
 - (i) an expression for the population mean.



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