

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. III (Semester-V)
Session: - 2023 - 2024
Unit Test I**

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

**Date: 17/10/2023
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ABHISHEK S NANOTY	A
2	AKSHAYA R IYER	11
3	ANCHAL SUR	A
4	ANJALI JAISWAL	7
5	ARYA G KADU	11
6	ASTHA KADU	14
7	AVANI V ADHAV	16
8	BHAVSH R KADWE	A
9	DARSHAN V DARVEKAR	A
10	DHRUVIKA O GOTMARE	7
11	DIYANKA M RAUT	A
12	EKTA V SANT	A
13	GUNJAN V MOURYA	9
14	HARSHITA S VARADE	10
15	HIMANSHU D RAMTEKE	A
16	ISHIKA S NAIK	8
17	ISHITA S SHRIVASTAVA	12
18	JANHAVI P DIWAKAR	13
20	JAYANT J HALDAR	A
21	KASHISH H BAWANGADE	8
22	MANSI D NANDANWAR	13
23	OM P DORLE	12
24	PARTH S VIRKHARE	A
25	PRANALI D DANDEKAR	A
26	PRANAV R BAGADE	8
27	PRIYA KUMARI PRASAD DEONATH	10
28	PRIYANKA M KHARWAR	12
29	RAJAT B TIWARI	16
30	RIYA R SINGH	13
31	ROHAN K NIMJE	13
32	SANJANA M GHATOLE	14
33	SARVAJEET P MASANWAR	A
34	SEJAL V SURUSE	15
35	SHRADDHA S SANDEL	A

36	SHRUTI R BHAGAT	13
37	SHRUTI S GAIKWAD	14
38	SHUBADA V KABULE	A
39	SUDHANSHU SAKARE	15
40	TRUPTI A MONDHE	8
41	VIDHAN R HEDAOO	A
42	YUNAKSHI P KAROKAR	A



Signature of Teacher



Head

Head

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

Bachelor of Science (B.Sc.) Semester—V Examination 2023
STATISTICS
Unit Test –I
Semester V Paper—II

Time : 45 min]

Maximum Marks : 20.

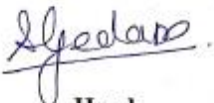
Date: 17/10/2023

NOTE: All questions carry equal marks

1. Describe the divisions and functions of C.S.O. and N.S.S.O.
2. Describe the advantages of sample survey over complete enumeration method.
3. 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
- 4.) Distinguish between SRSWOR and SRSWR.


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**Shri Shivaji Education Society Amravati's
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Department of STATISTICS
Class :- B. Sc. III (Semester-V)
Session: - 2023 - 2024
Unit Test II**

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

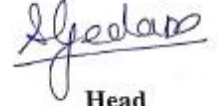
**Date: 3/11/2023
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ABHISHEK S NANOTY	A
2	AKSHAYA R IYER	8
3	ANCHAL SUR	A
4	ANJALI JAISWAL	8
5	ARYA G KADU	16
6	ASTHA KADU	14
7	AVANI V ADHAV	10
8	BHAVSH R KADWE	12
9	DARSHAN V DARVEKAR	16
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16	ISHIKA S NAIK	14
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18	JANHAVI P DIWAKAR	7
20	JAYANT J HALDAR	A
21	KASHISH H BAWANGADE	11
22	MANSI D NANDANWAR	15
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36	SHRUTI R BHAGAT	9
37	SHRUTI S GAIKWAD	A
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41	VIDHAN R HEDAOO	A
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Bachelor of Science (B.Sc.) Semester—V Examination 2023

STATISTICS

Unit Test –II

Semester V Paper—II


Time : 45 min]

Maximum Marks : 20.

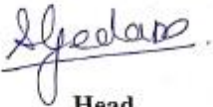
Date: 3/11/2023

NOTE: All questions carry equal marks

1. Compare stratified sampling under proportional and Neyman allocation over SRSWOR. Prove that : (a) Greater the difference in strata means, greater is the gain in precision of stratified random sampling under proportional allocation over unstratified random sampling
- 2 Explain stratified sampling procedure.
3. Explain the procedure of cluster sampling. Obtain an unbiased estimator of population mean under this sampling procedure. Derive an expression for its variance.
4. Describe a procedure of systematic sampling. Show that systematic sample mean is an unbiased estimator of population mean.


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