

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

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

**Date: 13/03/2023
Batch :- M8-M9(SCSM)**

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

36	SHRUTI R BHAGAT	8
37	SHRUTI S GAIKWAD	16
38	SHUBADA V KABULE	A
39	SUDHANSHU SAKARE	13
40	TRUPTI A MONDHE	8
41	VIDHAN R HEDA00	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—IV Examination 2023

STATISTICS

Unit Test –I

Semester IV Paper—II

Time : 45 minutes]

Maximum Marks : 20

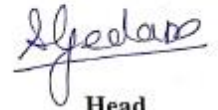
Date: 13/03/2023

NOTE: All questions carry equal marks

1. Define C.D.R. and S.T.D.R. Explain how STDR is an improvement over C.D.R. Describe the direct and indirect methods of standardization of death rates.
2. Define case fatality rate and infant mortality rate. State their advantages and limitations. Is IMR a probability rate ?
3. Define Age—S.F.R. with its merits and demerits. Explain the concept of stable population. State the conditions under which stable population becomes stationary.
4. Discuss the following fertility rates stating their merits and demerits : (i) Crude Birth Rate (C.B.R.) (ii) General Fertility Rate (G.F.R.)



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

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

**Date: 25/04/2023
Batch :- M8-M9(SCSM)**

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

33	SARVAJEET P MASANWAR	A
34	SEJAL V SURUSE	15
35	SHRADDHA S SANDEL	7
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40	TRUPTI A MONDHE	8
41	VIDHAN R HEDAOO	16
42	YUNAKSHI P KAROKAR	A

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Signature of Teacher



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Shivaji Science College
Congress Nagar, Nagpur.

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

Time : 45 minutes]

Maximum Marks : 20.

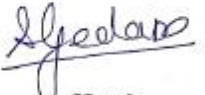
Date: 25/04/2023

NOTE: All questions carry equal marks

1. (a) Describe the construction of following scores stating the underlying assumptions and compare them: (i) Standard Score (ii) Normalized Score (iii) T-Score (iv) Percentile Score.
2. Explain the following scaling procedures stating their objectives and underlying assumptions:
(i) Scaling individual test items in terms of difficulty. (ii) Scaling of ratings in terms of normal density curve.
2. Discuss the following three methods of estimating test reliability stating their relative merits and demerits: (i) Test—Retest method (ii) Split—Half method.
4. Define validity of a test. How is it estimated? Explain the following concepts of validity: (i) Predictive validity (ii) Concurrent validity


Signature of Teacher




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