

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.**

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

Session: - 2022 - 2023

Unit Test I

Name of the Teacher: - Shivani U. Patil

Subject :- Statistics (Paper- I)

Date: 10/10/2022

Batch :- M8- M9(SCSM)

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ABHISHEK S NANOTY	A
2	AKSHAYA R IYER	16
3	ANCHAL SUR	10
4	ANJALI JAISWAL	1000
5	ARYA G KADU	14
6	ASTHA KADU	12
7	AVANI V ADHAV	A
8	BHAVSH R KADWE	10
9	DARSHAN V DARVEKAR	A
10	DHRUVIKA O GOTMARE	9
11	DIYANKA M RAUT	A
12	EKTA V SANT	12
13	GUNJAN V MOURYA	16
14	HARSHITA S VARADE	9
15	HIMANSHU D RAMTEKE	8
16	ISHIKA S NAIK	10
17	ISHITA S SHRIVASTAVA	7
18	JANHAVI P DIWAKAR	8
20	JAYANT J HALDAR	A
21	KASHISH H BAWANGADE	13
22	MANSI D NANDANWAR	14
23	OM P DORLE	7
24	PARTH S VIRKHARE	15
25	PRANALI D DANDEKAR	14
26	PRANAV R BAGADE	11
27	PRIYA KUMARI PRASAD DEONATH	7
28	PRIYANKA M KHARWAR	A
29	RAJAT B TIWARI	16
30	RIYA R SINGH	9
31	ROHAN K NIMJE	9
32	SANJANA M GHATOLE	16
33	SARVAJEET P MASANWAR	A
34	SEJAL V SURUSE	A
35	SHRADDHA S SANDEL	10

36	SHRUTI R BHAGAT	10
37	SHRUTI S GAIKWAD	15
38	SHUBADA V KABULE	A
39	SUDHANSHU SAKARE	13
40	TRUPTI A MONDHE	16
41	VIDHAN R HEDA00	10
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—III Examination 2022
STATISTICS
Unit Test –I
Semester III Paper—I

Time : Three Hours]

Maximum Marks : 201.

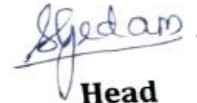
Date: 10/10/2022

NOTE: All questions carry equal marks

1. Explain Karl Pearson correlation coefficient with its diagram.
2. Define the following terms with suitable examples.
 - i) Bivariate m.g.f. ii) Stochastic independence of two random variable
 - iii) Bivariate c.d.f.
3. State and prove p.m.f. of multinomial distribution.
4. Derive m.g.f. of bivariate normal distribution and find its mean and variance



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

**Name of the Teacher: - Shivani U. Patil
Subject :- Statistics (Paper- I)**

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

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

35	SHRADDHA S SANDEL	A
36	SHRUTI R BHAGAT	12
37	SHRUTI S GAIKWAD	10
38	SHUBADA V KABULE	15
39	SUDHANSHU SAKARE	12
40	TRUPTI A MONDHE	17
41	VIDHAN R HEDAOO	14
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**Department of Statistics
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Congress Nagar, Nagpur.**

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

Time : Three Hours]

Maximum Marks : 20.

Date: 22/11/2022

NOTE: All questions carry equal marks

1. Let $x_1, x_2, x_3, \dots, x_n$ be a random sample of size n from Binomial distribution Find its p.m.f. .
2. Define chi square statistics. State its p.d.f. Also find its mode
3. Define t-test statistics state its p.d.f.
4. Define F –statistics. Derive its p.d.f.



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