

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

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

**Date: 07/03/2024
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks (out of 20)
1	BAGLE PAYAL DHARMPAL	16
2	CHAHANDE SASANT ANUP	10
3	DAHAKA MAYURI DEVENDRA	A
4	GUPTA PAYAL RAJESH	18
5	KAZI FIRDOSH SHARIF	12
6	KUMRE BHAGYASHRI CHANDRASHEKHAR	8
7	KUMRE NIKHIL BABURAO	A
8	KUNJARKAR ATHARVA MANGESH	10
9	LAKHOTE NEHARIKA RAJU	12
10	MANDWE ADARSH HIMMAT	7
11	MANGAM YUKTA DILIPRAO	A
12	MANWATKAR SAMIKSHA RAVI	7
13	MESHRAM SHRUTI PRASANJEET	11
14	MISHRA SONU MAHESH	A
15	MURADE AYASHA RAJU	13
16	NAGALWADE MEGHA MUNNAJI	8
17	PAL SAKSHI AKHILESH	A
18	PARIHAR MANIKA DILIPSINGH	8
19	PARSHIONIKAR HEMANSHU VINOD	14
20	PILLARE PRANALI DEVIDAS	16
21	PUJARI SARVESH SAMIR	13
22	RAMTEKE PRAJAKTA SANDESH	16
23	RAUT AARTI BALKRISHNA	A
24	RAUT NAMRATA NARESH	15
25	SHEIKH ROZINA ZAKIR HUSSAIN	13
26	SINGH ABHAY RAJVENDRA	16
27	SURKAR BHAGYASHRI NARENDRA	10
28	TAMBDE SOHAM VILIN	11
29	TARAR ADITI VINOD	8
30	VAIDYA SRUSHTI JAGDISH	10
31	WADEKAR AKSHAY BABA	12



Signature of Teacher



**Head
Head**

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

Bachelor of Science (B.Sc.) Semester—II Examination 2024
STATISTICS
Unit Test -I
Semester II Paper—I

Time : 45 minutes]

Maximum Marks : 20.

Date:07/03/2024

Q1.i) Derive mode of binomial distribution.

ii) State and prove additive property of binomial distribution.

Q.2. Derive p.m.f of poisson distribution and hence find mean and variance using m.g.f.

Q.3. Derive m.g.f of negative binomial distribution.

Q.4. Derive p.m.f. of geometric distribution, find its m.g.f.



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

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

**Date: 01/04/2024
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks (out of 20)
1	BAGLE PAYAL DHARMPAL	16
2	CHAHANDE SASANT ANUP	10
3	DAHAKA MAYURI DEVENDRA	A
4	GUPTA PAYAL RAJESH	18
5	KAZI FIRDOSH SHARIF	12
6	KUMRE BHAGYASHRI CHANDRASHEKHAR	8
7	KUMRE NIKHIL BABURAO	A
8	KUNJARKAR ATHARVA MANGESH	10
9	LAKHOTE NEHARIKA RAJU	12
10	MANDWE ADARSH HIMMAT	7
11	MANGAM YUKTA DILIPRAO	A
12	MANWATKAR SAMIKSHA RAVI	7
13	MESHRAM SHRUTI PRASANJEET	11
14	MISHRA SONU MAHESH	A
15	MURADE AYASHA RAJU	13
16	NAGALWADE MEGHA MUNNAJI	8
17	PAL SAKSHI AKHILESH	A
18	PARIHAR MANIKA DILIPSINGH	8
19	PARSHIONIKAR HEMANSHU VINOD	14
20	PILLARE PRANALI DEVIDAS	16
21	PUJARI SARVESH SAMIR	13
22	RAMTEKE PRAJAKTA SANDESH	16
23	RAUT AARTI BALKRISHNA	A
24	RAUT NAMRATA NARESH	15
25	SHEIKH ROZINA ZAKIR HUSSAIN	13
26	SINGH ABHAY RAJVENDRA	16
27	SURKAR BHAGYASHRI NARENDRA	10
28	TAMBDE SOHAM VILIN	11
29	TARAR ADITI VINOD	8
30	VAIDYA SRUSHTI JAGDISH	10
31	WADEKAR AKSHAY BABA	12



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Bachelor of Science (B.Sc.) Semester—II Examination 2024
STATISTICS
Unit Test -II
Semester II Paper—I

Time :45 minutes]

Maximum Marks : 20.

Date:01/04/2024

Q1. Derive m.g.f. about origin and normal distribution and hence find mean and variance of normal distribution

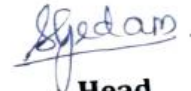
Q.2. State p.m.f. of uniform distribution find its mean and variance.

Q.3. State p.d.f. of beta distribution of first kind, Find r th row moment and hence find mean of the distribution.

Q.4. Find m.g.f. of geometric distribution and hence find its mean and variance. State and prove additive property of this distribution.



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