

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

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

**Date: 28/09/2023  
Batch :- M8-M9(SCSM)**

<b>S.no.</b>	<b>Students Full Name</b>	<b>Unit Test Marks (out of 20)</b>
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—I Examination 2023**  
**STATISTICS**  
**Unit Test -I**  
**Semester I Paper—I**

**Time :45 minutes]**

**Maximum Marks : 20.**

**Date:28/09/2023**

**Q1.i)** Using Axiomatic definition of probability show that  $P(\emptyset)=0$

**Q.2.** Define i) Mutually exclusive events ii) equally likely events iii) Independent event  
iv) Exhaustive event v) Random Sample

**Q.3.** For  $n$  events  $A_1, A_2, A_3, \dots, A_n$  define pairwise independence and mutual independence

**Q.4.** Show that mutual independence implies pairwise independence but its converse is not true.



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Department of STATISTICS  
Class :- B. Sc. I ( Semester-I)  
Session: - 2023 - 2024  
Unit Test II**

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

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

<b>S.no.</b>	<b>Students Full Name</b>	<b>Unit Test Marks (out of 20)</b>
1	BAGLE PAYAL DHARMPAL	12
2	CHAHANDE SASANT ANUP	08
3	DAHAKA MAYURI DEVENDRA	A
4	GUPTA PAYAL RAJESH	18
5	KAZI FIRDOSH SHARIF	12
6	KUMRE BHAGYASHRI CHANDRASHEKHAR	8
7	KUMRE NIKHIL BABURAO	10
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
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**Bachelor of Science (B.Sc.) Semester—I Examination 2023**  
**STATISTICS**  
**Unit Test -II**  
**Semester I Paper—I**

**Time :45 minutes]**

**Maximum Marks : 20.**

**Date:10/10/2023**

**Q1.** Define mathematical random variable. State and prove its properties.

**Q.2.** Define the cumulative distribution function of a random variable.

**Q.3.** Define i) mean ii) mode iii) median iv) quartile v) Range

**Q.4** What is meant by kurtosis and skewness .



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