

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

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

**Date: 07/10/2022  
Batch :- M8-M9(SCSM)**

<b>S.no.</b>	<b>Students Full Name</b>	<b>Unit Test Marks (out of 20)</b>
1	BANGRE ARPIT MANOJ	A
2	BATWE HRUSHIKESH SANJAY	A
3	BISEN SAGAR ARUN	15
4	KU.BISWAS APARAJITA APURBA	A
5	KU.BHAYDE PRATEEKSHA PRAVIN	14
6	BHENDARKAR KHUSHRANG JAIPRAKASH	10
7	KU.BHUJADE RUTUJA RAJRNDRA	11
8	CHOUHAN SOMAY SATISH	10
9	DEWANGAN MAHANDRA GANESH	A
10	KU.DUDHANKAR RUPALI RAJESH	8
11	FULMALI HITESH SANTOSH	7
12	GAJBHIYE YASH RAJU	8
13	KU GAWANDE AMRUTA VIJAY	16
14	KU GAWANDE NEHA GAJENDRA	7
15	KU GONDANE ISHA DINESH	A
16	KU.GUPTA VAISHNAVI BHARAT	14
17	KU.GUPTA PRINCY ASHOK	9
18	INGLE AJINKYA MAHENDRA	12
19	KU.LICHADE AYUSHI KRISHNA	11
20	KU.LOKHANDE AKANSHA ARVIND	14
21	KU KARANDE ASTHA GANGADHAR	12
22	KHAN FAISAL NAYEEMUDDIN	17
23	KHODE YASH SANJAY	A
24	KU.KUITE ANUSHKA VINOD	13
25	KU.MOHADIKAR AKSHITA PUSHPARAJ	8
26	KUNAGARIKAR ANUJA JAYANT	14
27	KU.PANDEY KAMAL BRIJESH	8
28	KU.PARATE PRANJAL JEEVAN	13
29	KU.RAUT RAKSHA GAJANAN	8
30	KU.SATFALE RAKSHA SANJAY	17

31	KU.SINGALWAR FALGUNI ANIL	14
32	TIWARI SHUBHAM	A
33	TOMAR ATHARVA JITENDRA	11
34	WAGDE ASHLESHA YUVRAJ	12
35	WAGHE SAKSHI SANDIP	8
36	YADAV SEJAL ASHOK	A



**Signature of Teacher**



**Head  
Head**

Department of Statistics  
Shivaji Science College  
Congress Nagar, Nagpur.

**Bachelor of Science (B.Sc.) Semester—I Examination 2022**

**STATISTICS**

**Unit Test -I**

**Semester I Paper—I**

**Time : Three Hours]**

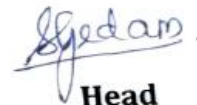
**Maximum Marks : 20.**

**Date: 07/10/2022**

1. Define following
  - a) Axiomatic approach with example
  - b) Equally likely events with example
  - c) Independent events
  - d) Classical definition of probability with limitations
2. State and prove addition law of probabilities for two events. Hence proved it for three events.
3. For two events A and B if B is subset of A then find  $P(A/B)$
4. Write a note on
  - (i) Partition of the sample (ii) Conditional Probability (iii) Independence of probability



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Department of STATISTICS  
Class :- B. Sc. I ( Semester-I)  
Session: - 2022 - 2023  
Unit Test II**

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

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

<b>S.no.</b>	<b>Students Full Name</b>	<b>Unit Test Marks (out of 20)</b>
1	BANGRE ARPIT MANOJ	A
2	BATWE HRUSHIKESH SANJAY	8
3	BISEN SAGAR ARUN	10
4	KU.BISWAS APARAJITA APURBA	A
5	KU.BHAYDE PRATEEKSHA PRAVIN	10
6	BHENDARKAR KHUSHRANG JAIPRAKASH	A
7	KU.BHUJADE RUTUJA RAJRNDRA	14
8	CHOUHAN SOMAY SATISH	15
9	DEWANGAN MAHANDRA GANESH	A
10	KU.DUDHANKAR RUPALI RAJESH	16
11	FULMALI HITESH SANTOSH	16
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17	KU.GUPTA PRINCY ASHOK	9
18	INGLE AJINKYA MAHENDRA	A
19	KU.LICHADE AYUSHI KRISHNA	9
20	KU.LOKHANDE AKANSHA ARVIND	8
21	KU KARANDE ASTHA GANGADHAR	A
22	KHAN FAISAL NAYEEMUDDIN	A
23	KHODE YASH SANJAY	14
24	KU.KUITE ANUSHKA VINOD	16
25	KU.MOHADIKAR AKSHITA PUSHPARAJ	17
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28	KU.PARATE PRANJAL JEEVAN	A
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32	TIWARI SHUBHAM	A
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**Bachelor of Science (B.Sc.) Semester—I Examination 2022**

**STATISTICS**

**Unit Test -II**

**Semester I Paper—I**

**Time : Three Hours]**

**Maximum Marks : 20.**

**Date: 22/11/2022**

**NOTE: All questions carry equal marks**

1. Explain the mathematical expectation of random variable. State and prove its properties
2. Define cumulative distribution function of a random variable.
3. Define the following measure of dispersion for a probability distribution with example  
(i) Quartile (ii) Mean deviation (iii) Median deviation (iv) Range
4. Define i) Standard deviation of random variable  
ii) What is meant by kurtosis and skewness. Write one difference between them



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