

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-III)
Session: - 2019 - 2020
Unit Test I**

Name of the Teacher: - M. A. Pande

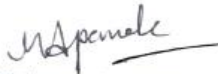
Date: 09/09/2019

Subject :- Statistics (Paper- I)


Batch :- M8-M9(SCSM)

Sr.No	Name of Students (SCSM)	Unit Test Marks
1	ADITI RAJENDRA MUDGAL	16
2	AKANKSHA ANIL SINHA	12
3	DIVYA PUNARAM ARBAT	19
4	HIMALI NIWAS HALMARE	10
5	KETKI KUNAL KALE	A
6	MANSI NITIN ELGUNDE	17
7	MRUNAL R. MALOKAR	15
8	NAYNA ANAND KALBANDE	A
9	PRANJALI PRAVIN KADOO	7
10	SAMIDHA P. DESHMUKH	A
11	SAMRUDDHI A.LOKHANDE	12
12	SANYOGITA SANJAY GUPTA	9
13	S.P. SHINGANJUDE	15
14	S. VIJAY GHARPURE	A
15	SRUSHTI VINOD GHARPURE	11
16	TANYA RAJU KALEWAR	13
17	VAIBHAVI JITENDRA TANNA	14
18	VAIBHAVI PRASHANT KALE	18
19	VAISHNAVI A. HIWASE	8
20	VRUSHALI SANTOSH YEDME	17
21	ABHISHEK ANIL AGRAWAL	11
22	DEVESH GAJESH BOBDE	A
23	HOMESH LALIT PARDHI	15
24	MAYUR DAMODHAR DEOLE	9
25	PRAFUL KISHOR DANGRE	12
26	SHUBHAM S. AGLAWE	14
27	SHUBHAM S. PALTANKAR	A
28	SUDHANSHU M. JOSHI	11
29	TARSH M. PATEL	17

30	TEJAS P. TOTADE	A
31	VISHAL R. WARTHI	15
32	V. NANDKISHOR NAGHATE	8


Signature of Teacher




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

Bachelor of Science (B.Sc.) Semester—III Examination 2019

STATISTICS

Unit Test -I

Semester III Paper—I

Time :45 minutes]

Maximum Marks : 20.

Date: 09/09/2019

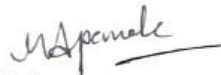
Q1.i) State Karl Pearson's correlation coefficient with diagram.

ii) Show that $\text{cov}(ax, by) = ab \text{cov}(x, y)$


Q.2. Define i) Joint pmf and pdf ii) marginal pmf and pdf iii) conditional mean and variance
iv) stochastically independent.

Q.3. Derive m.g.f of multinomial distribution.

Q.4. Derive p.d.f., m.g.f. of bivariate normal distribution 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: - 2019 - 2020
Unit Test II**

**Name of the Teacher: - M. A. Pande
Subject :- Statistics (Paper- I)**


**Date: 27/11/2019
Batch :- M8-M9(SCSM)**

Sr.No	Name of Students (SCSM)	Unit Test Marks
1	ADITI RAJENDRA MUDGAL	A
2	AKANKSHA ANIL SINHA	12
3	DIVYA PUNARAM ARBAT	19
4	HIMALI NIWAS HALMARE	10
5	KETKI KUNAL KALE	8
6	MANSI NITIN ELGUNDE	17
7	MRUNAL R. MALOKAR	15
8	NAYNA ANAND KALBANDE	A
9	PRANJALI PRAVIN KADOO	A
10	SAMIDHA P. DESHMUKH	14
11	SAMRUDDHI A.LOKHANDE	12
12	SANYOGITA SANJAY GUPTA	A
13	S.P. SHINGANJUDE	15
14	S. VIJAY GHARPURE	A
15	SRUSHTI VINOD GHARPURE	11
16	TANYA RAJU KALEWAR	A
17	VAIBHAVI JITENDRA TANNA	14
18	VAIBHAVI PRASHANT KALE	18
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Department of Statistics
Shivaji Science College
Congress Nagar, Nagpur.

Bachelor of Science (B.Sc.) Semester—III Examination 2019
STATISTICS
Unit Test -II
Semester III Paper—I

Time :45 minutes]

Maximum Marks : 20


Date: 2711//2019

Q1. Define i) Statistics ii) Random sample iii) Sampling distribution


Q.2. Let x_1, x_2, \dots, x_n be a random sample of size n from geometric distribution, find its probability distribution.

Q.3. State the p.d.f. find mode of chi square distribution find its mean and variance.

Q.4. State and prove additive property of chi square distribution.


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