

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of STATISTICS  
Class :- B. Sc. I ( Semester-II)  
Session: - 2018 - 2019  
Unit Test I**

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

**Date: 20/02/2019  
Batch :- M8-M9(SCSM)**

SR.NO.	NAME OF STUDENTS (SCSM)	MARKS
1	PRANJALI PRAVIN KADOO	8
2	HOMESH LALIT PARDHI	A
3	VAIBHAVI PRASHANT KALE	18
4	SHRUSHTI VINOD GHARPURE	15
5	TEJAS PURUSHOTTAM TOTADE	A
6	VAISHNAVI ASHOKRAO HIWASE	10
7	MANSI NITIN ELGUNDE	12
8	SUDHANSHU MUKUND JOSHI	16
9	SANYOGITA SANJAY GUPTA	18
10	TANYA RAJU KALEWAR	12
11	AKANSHA ANIL SINHA	16
12	DIVYA PUNARAM ARBAT	7
13	PRAFUL KISHOR DANGRE	8
14	KETKI KUNAL KALE	8
15	NAYNA ANAND KALBANDE	17
16	HIMALI NIWAS HALMARE	17
17	VAIBHAVI JITENDRA TANNA	16
18	ADITI RAJENDRA MUDGAL	8
19	SAYALI P. SHINGANJUDE	7
20	SHUBHAM SUDHIR PALTANKAR	A
21	MRUNALRAJENDRA MALOKAR	9
22	SHARYUSHWARI V. GHARPURE	18
23	MAYUR DAMODHAR DEOLE	15
24	TARSH MAHESH KUMAR PATEL	13
25	VYANKATESH N. NAGHATE	11
26	SAMIDHA P. DESHMUKH	9
27	ABHISHEK ANIL AGRAWAL	16
28	VISHAL RAMCHANDRA WARTHI	7
29	DEVESH GAJESH BOBDE	A
30	DNYANESHWARI P. WAGHMARE	10
31	ABHISHEK SHRIKANT NANOTI	17
32	SHANTANU SANJAY DHONE	17
33	ASHLESHA AMARSINGH GUJAR	9

*M. Panade*  
**Signature of Teacher**



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

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

**Time : 45 minutes]**

**Maximum Marks : 20.**

**Date: 20/02/2019**

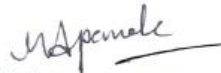
**Q1.i)** Derive mode of binomial distribution.

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.

  
Signature of Teacher



  
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Class :- B. Sc. I ( Semester-II)  
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Unit Test II**

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

**Date: 27/03/2019  
Batch :- M8-M9(SCSM)**

SR.NO.	NAME OF STUDENTS (SCSM)	MARKS
1	PRANJALI PRAVIN KADOO	8
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*M. Panade*  
**Signature of Teacher**



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**Congress Nagar, Nagpur**

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

**Time :45 minutes]**

**Maximum Marks : 20.**


**Date: 27/03/2019**

**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.

  
**Signature of Teacher**



  
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