

**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: - V.A.Chainani
Subject :- Statistics (Paper- II)**

**Date: 22/10/2019
Batch :- M8-M9(SCSM)**

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

Ahainani

Signature of Teacher



M. Panale

Head

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—II

Time : 45 min]

Maximum Marks : 20.

Date: 22/10/2019

NOTE: All questions carry equal marks

1. Define an “Index Number”. What are the uses of index numbers? Describe briefly the problems involved in the construction of an index number of prices. Explain the different price indices generated by weighted aggregate method.

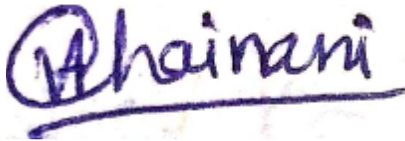
2 If $L(p)$ and $P(q)$ represent Laspeyre’s price index number and Paasche’s quantity index number respectively then, show that :

$$\frac{L(p)}{L(q)} = \frac{P(p)}{P(q)}$$

Where $P(p)$ represents Paasche’s price index number and $L(q)$ represent Laspeyre’s Quantity index number.

3. What is meant by base shifting? State its purpose. Explain splicing of index number series.

4.) Explain the concept of cost of living index number. Describe the two methods of construction of cost of living index number. Also state its 2 uses.



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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: - V.A.Chainani
Subject :- Statistics (Paper- II)**

**Date: 03/12/2019
Batch :- M8-M9(SCSM)**

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

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Head

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Department of Statistics
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Congress Nagar, Nagpur

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

STATISTICS

Unit Test –II

Semester III Paper—II

Time : 45 min]

Maximum Marks : 20.

Date: 03/12/2019

NOTE: All questions carry equal marks

1. Explain income and cross elasticity of demand.
2. The Demand curve and the Supply curve of a commodity are given by, $D = 19 - 3p - p^2$ & $S = 5p - 1$. Find the equilibrium price and the quantity exchange.
3. Define economic time series. State its different components. Explain additive and multiplicative models for time series data
- 4.) Explain Leontief's method of estimating elasticity from time series data, stating the underlying assumptions. Also state the limitations of this method.

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