

**Shri Shivaji Education Society Amravati's  
Science College, Congress Nagar, Nagpur.  
Department of STATISTICS  
Class :- B. Sc. II ( Semester-III)  
Session: - 2021 - 2022  
Unit Test I**

**Name of the Teacher: - Dr.S.S.Paliwal  
Subject :- Statistics (Paper- II)**

**Date: 23/10/2021  
Batch :- M8-M9(SCSM)**

<b>S.no.</b>	<b>Students Full Name</b>	<b>Unit Test Marks(out of 20)</b>
1	AANCHAL GAIKWAD	A
2	AKSHADA GIRHE	13
3	ASHMI DATTA	A
4	BHAIRAVI CHAUHAN	8
5	BHAVNA GAIKWAD	10
6	CHARUSHREE MESHRAM	17
7	DHANSHREE NEHARE	8
8	HIMANSHI FULWANI	6
9	MADHVI SINGH	13
10	MANSI GOKHALE	10
11	MANSI HEDAHO	14
12	MAYURI MADANKAR	8
13	NAINAL SHANGONDAWAR	7
14	NEHA MOHATURE	17
15	NIKITA SAKHARKAR	12
16	POORVI GAJBHIYE	6
17	PORNIMA AWARI	A
18	PRIYA INGLE	10
19	PURVA LANDGE	A
20	RRENUKA CHORE	13
21	RINKU HATTEWAR	16
22	SAKSHI PURSWAMI	7
23	SAKSHI GUMGAONKAR	11
24	SAKSHI KALE	6
25	SEJAL SONULE	8
26	SHRADDHA WATH	A
27	SHRADDHA SALVE	13
28	SHRUTI KARANDE	17
29	SHRUSTI ZADE	11
30	TANVI KEDAR	14
31	VAISHNAVI DANGRE	14
32	VEDIKA POPHALI	7
33	VIDHI JAUHARI	A
34	VIDNYANI UMATHE	9

35	ADITYA GOUR	10
36	ARYAN PATIL	A
37	DIVYANSHU CHOUKSEY	10
38	JAYESH BORKAR	9
39	MRUNAL BENDARE	A
40	OM MANGLE	7
41	PIYUSH MESHARAM	13
42	PRAJWAL ALONE	6
43	PREM HINGWE	17
44	RANJIT RAUT	6
45	ROUNAK KSHIRSAGAR	A
46	VISHNU JOSHI	10

*S. S. S. S.*

**Signature of Teacher**



*M. P. P. P.*

**Head**

**Head**

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

**Bachelor of Science (B.Sc.) Semester—III Examination 2021**  
**STATISTICS**  
**Unit Test –I**  
**Semester III Paper—II**

**Time : 45 min]**

**Maximum Marks : 201.**

**Date: 23/10/2021**

**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.

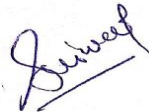
2 If  $L(p)$  and  $P(q)$  represent Laspeyre’s price index number and Paasche’s quantity index number respectively then, show that :

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

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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Department of STATISTICS  
Class :- B. Sc. II ( Semester-III)  
Session: - 2021 - 2022  
Unit Test II**

**Name of the Teacher: - Dr.S.S.Paliwal  
Subject :- Statistics (Paper- II)**

**Date: 02/12/2021  
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	AANCHAL GAIKWAD	A
2	AKSHADA GIRHE	A
3	ASHMI DATTA	14
4	BHAIRAVI CHAUHAN	15
5	BHAVNA GAIKWAD	A
6	CHARUSHREE MESHRAM	14
7	DHANSHREE NEHARE	12
8	HIMANSHI FULWANI	12
9	MADHVI SINGH	6
10	MANSI GOKHALE	10
11	MANSI HEDAHO	A
12	MAYURI MADANKAR	17
13	NAINAL SHANGONDAWAR	11
14	NEHA MOHATURE	15
15	NIKITA SAKHARKAR	16
16	POORVI GAJBHIYE	A
17	PORNIMA AWARI	10
18	PRIYA INGLE	6
19	PURVA LANDGE	7
20	RRENUKA CHORE	A
21	RINKU HATTEWAR	9
22	SAKSHI PURSWAMI	11
23	SAKSHI GUMGAONKAR	10
24	SAKSHI KALE	13
25	SEJAL SONULE	A
26	SHRADDHA WATH	6
27	SHRADDHA SALVE	13
28	SHRUTI KARANDE	15
29	SHRUSTI ZADE	A
30	TANVI KEDAR	8
31	VAISHNAVI DANGRE	7
32	VEDIKA POPHALI	7
33	VIDHI JAUHARI	15
34	VIDNYANI UMATHE	12

35	ADITYA GOUR	A
36	ARYAN PATIL	A
37	DIVYANSHU CHOUKSEY	18
38	JAYESH BORKAR	14
39	MRUNAL BENDARE	A
40	OM MANGLE	6
41	PIYUSH MESHAM	7
42	PRAJWAL ALONE	11
43	PREM HINGWE	A
44	RANJIT RAUT	6
45	ROUNAK KSHIRSAGAR	A
46	VISHNU JOSHI	A

*S. S. S.*

**Signature of Teacher**



*M. P. M.*

**Head**

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

**Bachelor of Science (B.Sc.) Semester—III Examination 2021**

**STATISTICS**

**Unit Test –II**

**Semester III Paper—II**

**Time : 45 min]**

**Maximum Marks : 20.**

**Date: 23/11/2021**

**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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