

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-III)
Session: - 2020 - 2021
Unit Test I**

**Name of the Teacher: - V. Chainani
Subject :- Statistics (Paper- II)**

**Date: 22/10/2020
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	A. S. MISHRA	12
2	A. VIJAYKUMAR	15
3	B.V. SINDHAMWAR	8
4	CHINAR KURVE	A
5	HARSHA S. UKEY	5
6	J. G. GAYDHANE	15
7	KOMAL P. JOKYANI	A
8	M.S. KHAIRKAR	12
9	M.N. SELOKAR	13
10	PARIDHI A. SINGH	16
11	POOJA S. TELANG	A
12	PREETI RAI	13
13	R.M. GOSWAMI	6
14	RIYA RAI	5
15	RUSHIKA V. TIKOO	10
16	S.V. RAMBHAD	16
17	SHARVARI S. NATU	11
18	S. CHADOKAR	A
19	S.R. BHONDE	10
20	S.G. DANDEKAR	18
21	S.V. UGEMUGE	6
22	V. KALOKAR .	A
23	V.S. KULKARNI	13
24	V. WADSKAR .	12
25	A.C. MESHARAM	10
26	AMAN AGRAWAL	17
27	C. D. MADHAVI	5
28	P.P. BAHARGHARE	9
29	S.S. DONGRE	A
30	SAYABAJ SHEIKH .	16
31	SHIVAM R. KAKDE	12
32	S.A.I. SHEIKH	A

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 2020

STATISTICS

Unit Test –I

Semester III Paper—II

Time : 45 min]

Maximum Marks : 20.

Date: 22/10/2020

NOTE: All questions carry equal marks

1. Define an “Index Number”. What are the uses of index numbers?. Explain the different price indices generated by weighted aggregate method.

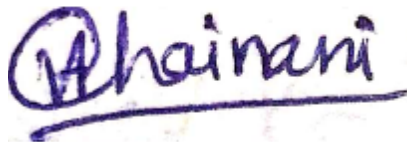
2 If $L(p)$ and $P(q)$ represent Laspeyre’s price index number and Paasche’s quantity index number respectively then, show that :

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

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: - 2020 - 2021
Unit Test II**

**Name of the Teacher: - V. Chainani
Subject :- Statistics (Paper- II)**

**Date: 03/12/2020
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	A. S. MISHRA	A
2	A. VIJAYKUMAR	12
3	B.V. SINDHAMWAR	7
4	CHINAR KURVE	5
5	HARSHA S. UKEY	17
6	J. G. GAYDHANE	A
7	KOMAL P. JOKYANI	5
8	M.S. KHAIRKAR	5
9	M.N. SELOKAR	A
10	PARIDHI A. SINGH	6
11	POOJA S. TELANG	11
12	PREETI RAI	A
13	R.M. GOSWAMI	15
14	RIYA RAI	15
15	RUSHIKA V. TIKOO	8
16	S.V. RAMBHAD	13
17	SHARVARI S. NATU	12
18	S. CHADOKAR	13
19	S.R. BHONDE	18
20	S.G. DANDEKAR	12
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23	V.S. KULKARNI	5
24	V. WADSKAR .	15
25	A.C. MESHRAM	A
26	AMAN AGRAWAL	15
27	C. D. MADHAVI	11
28	P.P. BAHARGHARE	16
29	S.S. DONGRE	A
30	SAYABAJ SHEIKH .	A
31	SHIVAM R. KAKDE	11
32	S.A.I. SHEIKH	A

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Bachelor of Science (B.Sc.) Semester—III Examination 2020

STATISTICS

Unit Test –II

Semester III Paper—II

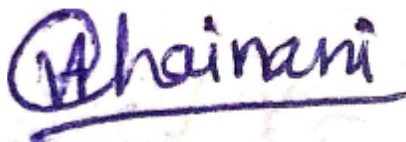
Time : 45 min]

Maximum Marks : 20.

Date: 03/12/2020

NOTE: All questions carry equal marks

1. Explain income and cross elasticity of demand. State Engel's Law. Define Engel's Curve..
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 ratio to trend method and ratio to moving average method of studying seasonal variations in time series. State the merits and demerits of these two methods.



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