

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-III)
Session: - 2022 - 2023
Unit Test I**

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

**Date: 19/10/2022
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ABHISHEK S NANOTY	A
2	AKSHAYA R IYER	16
3	ANCHAL SUR	A
4	ANJALI JAISWAL	16
5	ARYA G KADU	10
6	ASTHA KADU	11
7	AVANI V ADHAV	14
8	BHAVSH R KADWE	13
9	DARSHAN V DARVEKAR	A
10	DHRUVIKA O GOTMARE	9
11	DIYANKA M RAUT	A
12	EKTA V SANT	12
13	GUNJAN V MOURYA	16
14	HARSHITA S VARADE	9
15	HIMANSHU D RAMTEKE	8
16	ISHIKA S NAIK	10
17	ISHITA S SHRIVASTAVA	7
18	JANHAVI P DIWAKAR	8
20	JAYANT J HALDAR	A
21	KASHISH H BAWANGADE	13
22	MANSI D NANDANWAR	14
23	OM P DORLE	7
24	PARTH S VIRKHARE	15
25	PRANALI D DANDEKAR	14
26	PRANAV R BAGADE	11
27	PRIYA KUMARI PRASAD DEONATH	7
28	PRIYANKA M KHARWAR	A
29	RAJAT B TIWARI	16
30	RIYA R SINGH	9
31	ROHAN K NIMJE	9
32	SANJANA M GHATOLE	16
33	SARVAJEET P MASANWAR	A
34	SEJAL V SURUSE	A
35	SHRADDHA S SANDEL	10

36	SHRUTI R BHAGAT	15
37	SHRUTI S GAIKWAD	7
38	SHUBADA V KABULE	8
39	SUDHANSHU SAKARE	13
40	TRUPTI A MONDHE	14
41	VIDHAN R HEDA00	7
42	YUNAKSHI P KAROKAR	A



Signature of Teacher



Head

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

Bachelor of Science (B.Sc.) Semester—III Examination 2022
STATISTICS
Unit Test –I
Semester III Paper—II

Time : 45 minutes]

Maximum Marks : 20.

Date: 19/10/2022

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 :

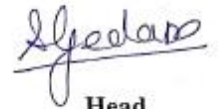
$$\frac{L(p)}{L(q)} = \frac{P(p)}{P(q)}$$

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 National income. Describe the two methods of National income.



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Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-III)
Session: - 2022 - 2023
Unit Test II**

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

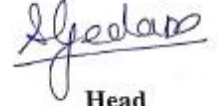
**Date: 23/11/2022
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ABHISHEK S NANOTY	A
2	AKSHAYA R IYER	7
3	ANCHAL SUR	A
4	ANJALI JAISWAL	10
5	ARYA G KADU	13
6	ASTHA KADU	A
7	AVANI V ADHAV	15
8	BHAVSH R KADWE	10
9	DARSHAN V DARVEKAR	A
10	DHRUVIKA O GOTMARE	12
11	DIYANKA M RAUT	A
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34	SEJAL V SURUSE	12
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38	SHUBADA V KABULE	10
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40	TRUPTI A MONDHE	A
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Bachelor of Science (B.Sc.) Semester—III Examination 2022

STATISTICS

Unit Test –II

Semester III Paper—II


Time : 45 minutes]

Maximum Marks : 20.

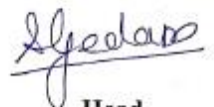
Date: 23/11/2022

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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