

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-III)
Session: - 2023 - 2024
Unit Test I**

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

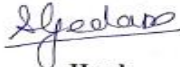
**Date: 07/10/2023
Batch :- M8-M9(SCSM)**

| S.no. | Students Full Name | Unit Test Marks (out of 20) |
|--------------|---------------------------------|--|
| 1 | BANGRE ARPIT MANOJ | A |
| 2 | BATWE HRUSHIKESH SANJAY | 9 |
| 3 | BISEN SAGAR ARUN | 16 |
| 4 | KU.BISWAS APARAJITA APURBA | 15 |
| 5 | KU.BHAYDE PRATEEKSHA PRAVIN | 16 |
| 6 | BHENDARKAR KHUSHRANG JAIPRAKASH | 16 |
| 7 | KU.BHUJADE RUTUJA RAJRNDRA | 15 |
| 8 | CHOUHAN SOMAY SATISH | A |
| 9 | DEWANGAN MAHANDRA GANESH | A |
| 10 | KU.DUDHANKAR RUPALI RAJESH | 14 |
| 11 | FULMALI HITESH SANTOSH | 12 |
| 12 | GAJBHIYE YASH RAJU | A |
| 13 | KU GAWANDE AMRUTA VIJAY | A |
| 14 | KU GAWANDE NEHA GAJENDRA | A |
| 15 | KU GONDANE ISHA DINESH | 7 |
| 16 | KU.GUPTA VAISHNAVI BHARAT | 13 |
| 17 | KU.GUPTA PRINCY ASHOK | 16 |
| 18 | INGLE AJINKYA MAHENDRA | 14 |
| 19 | KU.LICHADE AYUSHI KRISHNA | 11 |
| 20 | KU.LOKHANDE AKANSHA ARVIND | 15 |
| 21 | KU KARANDE ASTHA GANGADHAR | A |
| 22 | KHAN FAISAL NAYEEMUDDIN | A |
| 23 | KHODE YASH SANJAY | A |
| 24 | KU.KUITE ANUSHKA VINOD | 7 |
| 25 | KU.MOHADIKAR AKSHITA PUSHPARAJ | 8 |
| 26 | KUNAGARIKAR ANUJA JAYANT | 10 |
| 27 | KU.PANDEY KAMAL BRIJESH | 13 |
| 28 | KU.PARATE PRANJAL JEEVAN | 10 |
| 29 | KU.RAUT RAKSHA GAJANAN | 14 |
| 30 | KU.SATFALE RAKSHA SANJAY | 15 |

| | | |
|----|---------------------------|----|
| 31 | KU.SINGALWAR FALGUNI ANIL | 10 |
| 32 | TIWARI SHUBHAM | A |
| 33 | TOMAR ATHARVA JITENDRA | 16 |
| 34 | WAGDE ASHLESHA YUVRAJ | 10 |
| 35 | WAGHE SAKSHI SANDIP | 8 |
| 36 | YADAV SEJAL ASHOK | A |


Signature of Teacher




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

Bachelor of Science (B.Sc.) Semester—III Examination 2023

STATISTICS

Unit Test -I

Semester III Paper—II

Time : 45 min]

Maximum Marks : 20.

Date: 07/10/2023

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 :

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

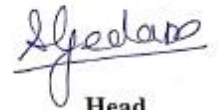
Where $P(p)$ represents Paasche’s price index number and $L(q)$ represent Laspeyre’s Quantity index number.

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: - 2023 - 2024
Unit Test II**

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

**Date: 2/11/2023
Batch :- M8-M9(SCSM)**

| S.no. | Students Full Name | Unit Test Marks (out of 20) |
|--------------|---------------------------------|--|
| 1 | BANGRE ARPIT MANOJ | A |
| 2 | BATWE HRUSHIKESH SANJAY | 10 |
| 3 | BISEN SAGAR ARUN | 10 |
| 4 | KU.BISWAS APARAJITA APURBA | 10 |
| 5 | KU.BHAYDE PRATEEKSHA PRAVIN | A |
| 6 | BHENDARKAR KHUSHRANG JAIPRAKASH | 9 |
| 7 | KU.BHUJADE RUTUJA RAJRNDRA | 11 |
| 8 | CHOUHAN SOMAY SATISH | 10 |
| 9 | DEWANGAN MAHANDRA GANESH | A |
| 10 | KU.DUDHANKAR RUPALI RAJESH | 11 |
| 11 | FULMALI HITESH SANTOSH | 8 |
| 12 | GAJBHIYE YASH RAJU | A |
| 13 | KU GAWANDE AMRUTA VIJAY | A |
| 14 | KU GAWANDE NEHA GAJENDRA | A |
| 15 | KU GONDANE ISHA DINESH | 16 |
| 16 | KU.GUPTA VAISHNAVI BHARAT | 10 |
| 17 | KU.GUPTA PRINCY ASHOK | 16 |
| 18 | INGLE AJINKYA MAHENDRA | 7 |
| 19 | KU.LICHADE AYUSHI KRISHNA | 7 |
| 20 | KU.LOKHANDE AKANSHA ARVIND | 15 |
| 21 | KU KARANDE ASTHA GANGADHAR | A |
| 22 | KHAN FAISAL NAYEEMUDDIN | A |
| 23 | KHODE YASH SANJAY | A |
| 24 | KU.KUITE ANUSHKA VINOD | 14 |
| 25 | KU.MOHADIKAR AKSHITA PUSHPARAJ | 10 |
| 26 | KUNAGARIKAR ANUJA JAYANT | 10 |
| 27 | KU.PANDEY KAMAL BRIJESH | A |
| 28 | KU.PARATE PRANJAL JEEVAN | A |
| 29 | KU.RAUT RAKSHA GAJANAN | A |
| 30 | KU.SATFALE RAKSHA SANJAY | 11 |
| 31 | KU.SINGALWAR FALGUNI ANIL | 12 |
| 32 | TIWARI SHUBHAM | A |
| 33 | TOMAR ATHARVA JITENDRA | A |
| 34 | WAGDE ASHLESHA YUVRAJ | 13 |
| 35 | WAGHE SAKSHI SANDIP | 16 |
| 36 | YADAV SEJAL ASHOK | A |

Shivaji

Signature of Teacher



Shivaji

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Congress Nagar, Nagpur.**

Bachelor of Science (B.Sc.) Semester—III Examination 2023

STATISTICS

Unit Test -II

Semester III Paper—II


Time : 45 min]

Maximum Marks : 20

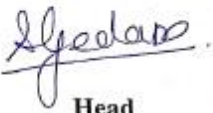
Date: 2/11/2023

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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