

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-IV)
Session: - 2018 - 2019
Unit Test I**

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

**Date: 23/02/2019
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ANKUSH D. YEDE	A
2	ASHWINI S. MALHARE	16
3	DIPTI VIVEK VAIDYA	11
4	HARSHITA . KAPSE	14
5	HEMA R. GUPTA	A
6	KETKI R. SHENDE	16
7	KHUSHI R. SHARMA	A
8	MADHURA V. DUBEY	A
9	MANSI B. DOKRIMARE	A
10	NEETU M. DHARMARI	14
11	NITISHA R. PILLEWAN	13
12	PRANJALI . MIRALWAR	8
13	RADHIKA A. TIWARI	A
14	RUCHIKA . GOLAIT	9
15	SAUJANYA . YELMULE	A
16	SNEHA S. IKHAR	12
17	SWARDA S.H KAWARE	14
18	TANUJA D. LILHARE	6
19	UNNATI J. UKINKAR	12
20	AMEYA R. MHAISURKAR	A
21	BHUSHAN G.MESHRAM	13
22	H. B. SHARANAGAT	11
23	MAYANK . RAMTEKKAR	6
24	OMKAR UMESH LONDHE	A
25	PRATIK S. MULEY	13
26	P.D. RAKHADE	10
27	SANKET R. TOPLE	A
28	S.A. DESHPANDE	10
29	SUBODH N. CHAUDHARI	6
30	YOGESH R. WAGHODE	A

Survee

Signature of Teacher



M. P. Anale

Head

Head

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

Bachelor of Science (B.Sc.) Semester—IV Examination 2019
STATISTICS
Unit Test –I
Semester IV Paper—II

Time : 45 min]

Maximum Marks : 20.

Date: 23/02/2019

NOTE: All questions carry equal marks

1. Define C.D.R. and S.T.D.R. Explain how STDR is an improvement over C.D.R. Describe the direct and indirect methods of standardization of death rates.
2. Define case fatality rate and infant mortality rate. State their advantages and limitations. Is IMR a probability rate ?
3. Define Age—S.F.R. with its merits and demerits. Explain the concept of stable population. State the conditions under which stable population becomes stationary.
4. Discuss the following fertility rates stating their merits and demerits : (i) Crude Birth Rate (C.B.R.) (ii) General Fertility Rate (G.F.R.)



Signature of Teacher



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Department of Statistics
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Congress Nagar, Nashik-422 004.

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.
Department of STATISTICS
Class :- B. Sc. II (Semester-IV)
Session: - 2018 - 2019
Unit Test II**

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

**Date: 18/03/2019
Batch :- M8-M9(SCSM)**

S.no.	Students Full Name	Unit Test Marks(out of 20)
1	ANKUSH D. YEDE	14
2	ASHWINI S. MALHARE	8
3	DIPTI VIVEK VAIDYA	16
4	HARSHITA . KAPSE	9
5	HEMA R. GUPTA	8
6	KETKI R. SHENDE	9
7	KHUSHI R. SHARMA	8
8	MADHURA V. DUBEY	A
9	MANSI B. DOKRIMARE	A
10	NEETU M. DHARMARI	A
11	NITISHA R. PILLEWAN	11
12	PRANJALI . MIRALWAR	14
13	RADHIKA A. TIWARI	A
14	RUCHIKA . GOLAIT	8
15	SAUJANYA . YELMULE	15
16	SNEHA S. IKHAR	A
17	SWARDA S.H KAWARE	15
18	TANUJA D. LILHARE	A
19	UNNATI J. UKINKAR	13
20	AMEYA R. MHAISURKAR	16
21	BHUSHAN G.MESHRAM	7
22	H. B. SHARANAGAT	8
23	MAYANK . RAMTEKKAR	13
24	OMKAR UMESH LONDHE	15
25	PRATIK S. MULEY	6
26	P.D. RAKHADE	A
27	SANKET R. TOPLE	9
28	S.A. DESHPANDE	A
29	SUBODH N. CHAUDHARI	8
30	YOGESH R. WAGHODE	A

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Congress Nagar, Nagpur.

Bachelor of Science (B.Sc.) Semester—IV Examination 2019
STATISTICS
Unit Test –II
Semester IV Paper—II

Time : 45 min]

Maximum Marks : 20.

Date: 18/03/2019

NOTE: All questions carry equal marks

1. (a) Describe the construction of following scores stating the underlying assumptions and compare them: (i) Standard Score (ii) Normalized Score (iii) T-Score (iv) Percentile Score.
2. Explain the following scaling procedures stating their objectives and underlying assumptions:
(i) Scaling individual test items in terms of difficulty. (ii) Scaling of ratings in terms of normal density curve.
2. Discuss the following three methods of estimating test reliability stating their relative merits and demerits: (i) Test—Retest method (ii) Split—Half method.
4. Define validity of a test. How is it estimated? Explain the following concepts of validity: (i) Predictive validity (ii) Concurrent validity



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