

ANDHRA UNIVERSITY

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All Official letters, packages etc, should be addressed to the Registrar by designation and not by name.

No. L I (1)/U.G. Courses/Statistics/MQP/2021

Visakhapatnam,
Date: 09-06-2021

From: **THE REGISTRAR**

To

P. Gandhi,
Chairman, Board of Studies in Statistics (U.G.),
Mrs. A.V.N. College,
Visakhapatnam,

Sir,

Sub: Approval of Model Question Papers – Reg.

Ref: Email letter dated 25-05-2021 along with Model Question Papers.

With reference to the above, I am by direction to inform that the Revised Choice Based Credit System, U.G. Courses (w.e.f. 2020-2021) First Semester Paper-1: Descriptive Statistics Model Question Papers has been approved.

Hence, I request to arrange to circulate the same among the Teaching Staff and Students concerned and placed in A.U. website.

Yours faithfully,

(M. HEMA NAIK)
DEPUTY REGISTRAR (ACADEMIC)

Copies to:

1. The Dean of Academic Affairs, A.U., Vsp.
2. The Director, computer Centre, A.U. Vsp.
3. All Principals, A.U. Affiliated Colleges Offered in U.G. courses.
4. The Superintendent S.I Section for taking necessary further action.

Statistics - B Sc First Year - Model Question Paper

Inbox



gandhi padi <gandhi.padi99@gmail.com>

Tue, May 25, 11:55
AM (21 hours ago)

to me

Sir,

Please find the attachment containing the Statistics model question paper pertaining to B Sc First Year.

Thanks and Regards

P Gandhi

Lecturer in Statistics

Mrs AVN College

Chairman, Board of Studies

Andhra University

2 Attachments

From

P. GANDHI
Lect in Statistics
MSS AVN College,
Visakhapatnam.

Visakhapatnam.
Dt: 25-5-2021

To

The Registrar
Andhra University
Visakhapatnam.

Respected Sir,

Sub: sending Model question paper for
Statistics Reg - Regarding -

I P. GANDHI, Lecturer in Statistics
Mrs AVN College, Visakhapatnam and Board
of Studies Chairman (U.G.) of Andhra Univer-
sity, Visakhapatnam. I am here with
sending a model paper for Statistics for
the Revised Syllabus under CBCS Pattern.

Thanking You Sir,

Yours faithfully
Phendri
(P. GANDHI)
Chairman BOS
Statistics, AV.

ANDHRA UNIVERSITY
MODEL PAPER
B.A./B.Sc- CBCS REVISED SYLLABUS
FIRST SEMESTER
PART-1 STATISTICS
PAPER-I :DESCRIPTIVE STATISTICS
(with Mathematics combination)
(Effective from 2020-2021 admitted batch)

TIME:3 HOURS

MAX MARKS:75M

(SECTION A- $5 \times 5 = 25$ MARKS)

Answer any five from the following eight questions

- 1.Distinguish between primary data and secondary data.
- 2.Explain various methods of measuring skewness.
- 3.Explain sheppard's correction.
- 4.Explain multiple correlation coefficient . Mention its properties.
- 5.Derive the normal equations for fitting of the curve $y = ab^x$.
- 6.Show that the correlation coefficient is independent of origin and scale.
- 7.Distinguish between correlation and regression coefficients.
- 8.Explain the criteria for independence of attributes.

(SECTION B- $5 \times 10 = 50$ MARKS)

Answer the following (one from each unit)

9. a)What is primary data? State the various methods of collecting primary data and discuss their relative merits

(or)

- b)Calculate the mean, median, mode of the following data

Wages(in rs)	0-20	20-40	40-60	60-80	80-100
Number of workers	10	15	40	25	10

10. a)Find the standard deviation for the following distribution

Age	20-25	25-30	30-35	35-40	40-45	45-50
Number of persons	170	110	80	45	40	35

(or)

b) Define central and non central moments. Derive the relationship between the moments about mean in terms of moments about any point.

11. a) Explain curve fitting. Fit a straight line of the form $y=a+bx$ for the following data

X	1	2	3	4	5	7	8	9
Y	2	6	7	8	10	11	10	9

(or)

b) Define correlation coefficient. Calculate Spearman's rank correlation coefficient between X and Y for the following data

X	80	78	75	75	68	67	60	59
Y	12	13	14	14	16	14	15	13

12. a) Define regression coefficients. Explain the properties of regression coefficients.

(or)

b) Define regression. In a partially destroyed laboratory record of an analysis of correlation data, following information is available

Variance of X=9

Regression equations : $8X-10Y+66=0$

$40X-18Y=214$

Calculate i) \bar{X} and \bar{Y}

ii) Standard deviation of y

iii) Correlation between X and Y

13. a) Define consistency . Explain the criteria of consistency.

(or)

b) Explain the coefficient of association and find the value of Q for the given data.

$(AB)=50$, $(A\bar{B})=79$, $(\alpha B)=89$, $(\alpha\bar{B})=782$.

Plunder
(P. GANDHI)
Chairman BOS