## INTERNAL ASSIGNMENT 2017 - 2018

#### Course: B.A Maths & Statistics

Paper: III

Title: Applied Statistics –I Year: III

#### Section - A

## UNIT – 1: Answer the following short questions (each question carries two marks) 5 \* 2 = 10

- 1. Explain the Principles of design of experiment
- 2. Explain assignable variation and Chance variation
- 3. Explain Producer risk and Consumer risk
- 4. Explain Artificial variable
- 5. Explain Job Sequencing

#### Section - B

#### UNIT – II: Answer the following questions (each question carries Five marks) 2 \* 5 = 10

- 1. Construct Control limits for Mean, Range and SD Chart.
- 2. Explain Assignment Algorithm.

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Name of the faculty: Govardhan G

Department: Statistics

## INTERNAL ASSIGNMENT 2017 - 2018

#### Course:-B.A(STATISTICS)

Paper: IV Title: APPLIED STATISTICS-II Year- III.

#### Section -A

#### Unit-I:

Answer the following Short answer questions. [each question carries two marks] [5x2=20].

1. Lottery method.

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- 2. Proportional allocation.
- 3. Define time series.
- 4. Laspeyre's and Paaschi's method.
- 5. Define demand and supply.

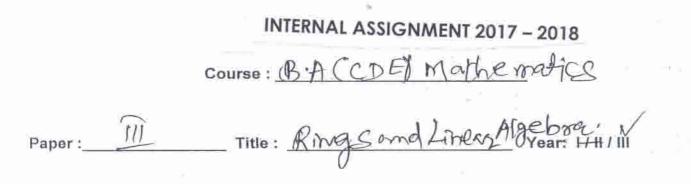
#### Section-B

#### Unit-II:

Answer the following questions.[each question carries five marks]. [2x5=10].

- In SRSWOR the sample mean square [s<sup>2</sup>] is an unbiased estimate of the population mean square [S<sup>2</sup>].
- Explain ratio to trend method to measure seasonal varieties with merits and demerits.

Name of the faculty: k. venkata ramana. Department: Statistics.



Section – A

UNIT - I : Answer the following short questions (each question carries two marks) 5x2=10

#### Section - B

UNIT – II : Answer the following Questions (each question carries Five marks) 2x5=10

1. Sate and poole that fundamental theorem of homomorphism 2. Solve the system norther of by Using Cramer's Rule 2x-3ytty3=8} by Using Cramer's Rule 2x-3ytty3=8} Name of the Faculty: V. Venukateshin

Dept. Of Mathematics

# INTERNAL ASSIGNMENT 2017 - 2018

## B.A MATHS III YEAR NUMERICAL ANALYSIS PAPER-IV (PGRRCDE)

Marks: 20

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## <u>PART-A</u> Answer all questions

 $5 \ge 2 = 10$ 

# 1. Find a root of $x^2 + x - 1 = 0$ using Regula Falsi method correct to up to one decimal place.

2. Explain Lagrage's interpolating polynomial.

3. Explain Gauss-Seidel iteration method.

4. Explain Bisection method.

5. Difine Runge-Kutta fourth order method

## PART-B Answer all questions

 $2 \ge 5 = 20$ 

## Explain Newton-Raphson method and use it to find a real root of equation x<sup>3</sup> - 3x + 1 = 0.

8. find the polynomial f(x), for the following data

X:	1	2	3	4	5	6
y:	1	8	27	64	125	216

by using Newton's forward Interpolation method.

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(1) 
$$L_{2}^{2} (\operatorname{osall}_{3}^{2})$$
  
 $(2)^{-1} \left[ \frac{1}{25 - 3} + \frac{1}{45} - \frac{5}{5 - 9} \right]$   
(3) solve  $dx$  adv  $x = 1 + \frac{2t}{5}$ 

3) solve 
$$\frac{dx}{dt^2} = 3\frac{dx}{dt} + 2x = 1 - e^t x(0) = 1$$
,  $x(0) = 0$ .

(4) Find The seal numbers A and Bit  

$$A + iB = \frac{1}{(1-2i)(2+3i)}$$

## BA (Maths & Stats) III YEAR ANNUAL EXAMINATIONS MARCH/APRIL - 2018

## INTERNAL ASSIGNMENT

## **SUB: Applied Mathematics**

Paper IV : Differential Geometry

#### Section - A

UNIT – I : Answer the following questions (each question carries two marks) 5x2=10

- 1. Define Osculating plane
- 2. Define Evolutes
- 3. Write First fundamental Form
- 4. Define Asumptotics
- 5. Define Torsion

#### Section - B

UNIT – II : Answer the following Questions (each question carries five marks) 2x5=10

- 1. Write Serret Frenet Formula
- 2. State Euler's theorem and Rodrigues Formula

## (Maths & Stats) III YEAR ANNUAL EXAMINATIONS MARCH/APRIL - 2018

## INTERNAL ASSIGNMENT

## Sub: ECONOMICS

## Paper – III : INDIAN ECONOMY

### Section - A

UNIT – I : Answer the following questions (each question carries two marks) 5x2=10

- 1. PCI (per capital Income)
- 2. L.P.G.

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- 3. Micro Finance
- 4. FDI (Foreign Direct Investment)
- 5. Demographic features

#### Section - B

- UNIT II : Answer the following Questions (each question carries five marks) 2x5=10
  - Discuss the objectives of Sustainable Development and what are the methods of measuring sustainable Development ?
  - 2. Discuss the sources and importance of Institutional agricultural credit

## . (Maths & Stats) III YEAR ANNUAL EXAMINATIONS MARCH/APRIL - 2018

## INTERNAL ASSIGNMENT

## Sub: ECONOMICS

## Paper – IV : PUBLIC FINANCE & I.T.

#### Section - A

UNIT - I : Answer the following questions (each question carries two marks) 5x2=10

- 1. Public Finance
- 2. Public Revenue
- 3. Terms of Trade
- 4. Public goods
- 5. Balance of payments

### Section - B

## UNIT - II : Answer the following Questions (each question carries five marks) 2x5=10

- 1. Discuss critically the theory of comparative cost ?
- 2. Explain the concept of the balance of payment ?