



# Government Degree College, Seethanagaram

Accredited by NAAC with "B" Grade, ISO 9001:2015 Certified College

Affiliated to Aadi Kavi Nannayya University  
Opp K.G.N.M .Trust, Purushottapatnam Road, Seethanagaram



## “DEPARTMENT OF MATHAMETICS”

DOCUMENTATION

CERTIFICATE COURSE

ON

## “COMPETATIVE MATHAMETICS”



CONDUCTED BY

DEPARTMENT OF MATHAMETHICS

**DURATION OF THE COURSE: ONE AND HALF MONTH**

From JULY 4<sup>th</sup> 2022 to AUGUST 30TH '2022

**SCHEDULE:**

EVERYDAY 4 PM to 5 PM

## **ATTENDANCE**

75% Attendance in classes is mandatory for appearing in the examination.

## **MODE OF EXAMINATION**

The Examination Paper will consist of 100 Marks

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External Exam pattern 5x10=50 [All questions mandatory].

Internal exam pattern 5x10=50 [All questions mandatory].

## **PASSING REQUIREMENT**

Candidates have to secure minimum 50% marks to qualify the certificate course examination.

## **RESULT**

The result will appear after one day of closure of off-line examination. List of passed participants will also be hosted at the college notice board.

## **MODULES TO BE COVERED IN THE COURSE:**

### **UNIT-I - Sequence and Series (10 Hrs)**

Analogies of numbers and alphabets  
completion of blank spaces following the  
pattern in  $a:b::c:d$  relationship odd thing out;  
missing numbers in a sequence or a series.

### **UNIT-II- Arithmetic Ability (11 Hrs)**

Algebraic operations BODMAS, Fractions,  
Divisibility rules, LCM & GCD (HCF). Date,  
Time, and Arrangement Problems: Calendar  
problems, Clock problems, Blood relationship.

### **UNIT-III- Quantitative Aptitude (12 Hrs)**

Averages, Ratios and Proportion, Problems on  
Ages, Time & Distance -Speed.

### **UNIT-IV- Businesses Computations (12 Hrs)**

Percentages, Profit Loss, Partnership, Simple  
& Compound interest

## MODEL QUESTION PAPER

# Paper – mat c2 - competative MATHEMATICS

(For the batches admitted in 2021-22 only)

Duration: 2 Hrs

Max Marks:50

Answer any **FIVE** of the following. Each question carries **10** marks. **5 x 10 = 50 M**

- Find three numbers in Arithmetic Progression (A.P) whose sum is 9 and the product is -165.
  - Find three numbers in Geometric Progression (G.P) whose sum is 21 and sum of their squares is 189.
- Find the sum of the series  $72 + 70 + 68 + \dots + 40$ .
  - Find the sum of 10 terms of the series  $1 + 3 + 9 + 27 + \dots$
- Find the sum of the all odd numbers upto 100?
  - What was the day of the week on 15<sup>th</sup> August, 1947?
- Find the LCM of 72, 108 and 2100.
  - Find the HCF of 204, 1190 and 1445.
- The speed of a train is 90 kmph. What is the distance covered by it in 10 minutes?
  - Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?
- Find the average of first 10 odd numbers?
  - A bag contains One Rupee, 50 Paise, 25 Paise coins in the ratio 8:9:11. If the total money in the bag is Rs.122. Find the number of coins of each type?
- The cost price of a radio is Rs.1500 and it was sold for Rs.1230. Find the Loss%.
  - Find the difference between Simple Interest and Compound Interest on Rs.5000 for 2 years at 10% per annum.
- A candidate got 35% votes polled and he lost to his rival by 2250 votes. How many votes were cast?
  - Four milkmen rented a pasture. 'A' grazed 24 cows for 3 months, 'B' 10 cows for 5 months, 'C' 35 cows for 4 months and 'D' 21 cows for 3 months. If A's share of rent is Rs.720, find the total rent of the field.

## **MODULES TO BE COVERED IN THE COURSE:**

### **Objective of Course: -**

The course will prepare the participants for the opportunities in the field of Government Jobs in banking sector, RRB, LIC and Entrance exams for higher studies like MBA, MCA and post-Graduation

### **Eligibility for the course:-**

The Course is Open for the Economics Students in Graduation Level. As well as for the students whoever is preparing for competitive exams.

**LIST OF STUDENTS**

S.NO	REG.NO	NAME OF THE PARTICIPANTS	CLASS
01	201007101001	ALLAM JHANSI RANI	II B.Sc. (M.P.C)
02	201007101002	BANDIA LAKSHMI ISHWARYA	II B.Sc. (M.P.C)
03	201007101003	BATTULA SUNITHA PAVAN	II B.Sc. (M.P.C)
04	201007101004	CHINTHAPALLI NAGA LAKSHMI	II B.Sc. (M.P.C)
05	201007101005	CHUNDRU MOHAN DURGA	II B.Sc. (M.P.C)
06	201007101006	EDALA ANIL SATISH	II B.Sc. (M.P.C)
07	201007101007	GEDDEM HEMANTH	II B.Sc. (M.P.C)
08	201007101008	INDIGIMELLI MOUNIKA	II B.Sc. (M.P.C)
09	201007101009	KANDUKURI VISHALI	II B.Sc. (M.P.C)
10	201007101011	KONDAPALLI NAGA SATYA SAI	II B.Sc. (M.P.C)
11	201007101012	KORADA SIVA	II B.Sc. (M.P.C)
12	201007101013	MOSALAPALLI DEVI SRI	II B.Sc. (M.P.C)
13	201007101015	PALLAPARAJU VENKAT DURGA PRASAD	II B.Sc. (M.P.C)
14	201007101018	SENAGALA SAI DURGA	II B.Sc. (M.P.C)
15	201007101019	SIDDE VENKATA KANAKA DURGA	II B. Sc (M.P.C)
16	201007101020	SUNKARA SIVA RAMA KRISHNA	II B.Sc. (M.P.C)
17	201007101021	TUMMALA TARAKA	II B.Sc. (M.P.C)
18	201108100001	ALLAM PRAVEEN KUMAR	II B. Com(GEN)
19	201108100011	KOTTA CHINNI	II B.Com(GEN)
20	201108100021	PANDRAKULA ARCHANA	II B.Com(GEN)
21	201108100020	PADITHINA MAHESH	II B.Com(GEN)
22	201108100014	KUPPALA RATANA PADMA	II B.Com(GEN)
23	201108100023	RELANGI SURYA PRAKASH	II B.Com(GEN)
24	201106201001	SAKIRI ANITHA	II BA (HEP)
25	201106201001	GEDDAM BHARATI PRABHI	II BA (HEP)
26	201106201001	PENMASTA GEETANJALI	II BA (HEP)
27	201106201001	MYLAPALLI NAGESWARI	II BA (HEP)
28	201106201001	KONE PAPA	II BA (HEP)
30	201106201001	PUTTA PAVANI VENKATA PRAKSHIPTHA	II BA (HEP)

# INAUGURAL SESSION

## CERTIFICATE COURSE IN MATHEMATICS



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DEPARTMENT OF 'MATHEMATICS'



### CERTIFICATE COURSE

4<sup>th</sup> July-2022 to 30<sup>th</sup> Aug-2022

TOPIC ON

### 'COMPETATIVE MATHEMATICS'

COURSE DURATION :

4<sup>th</sup> July-2022 to 30<sup>th</sup> Aug-2022

Total 45 Days

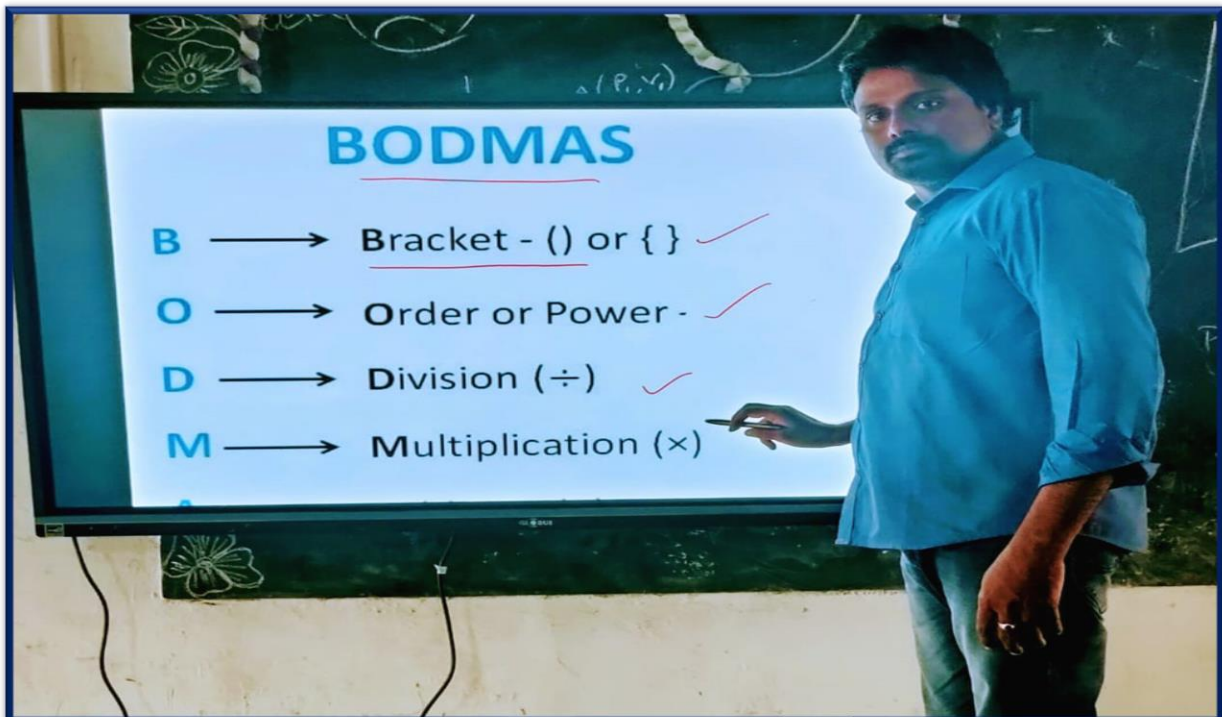
MODE :

OFFLINE



# CONDUCTING CLASSES FOR CERTIFICATE COURSE

## COMPETATIVE MATHEMATICS



## CERTIFICATES

Certificates will be awarded by our hon'ble college principal to the students whoever passed this examination.











