



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

“COMPETITIVE MATHAMETICS”



CONDUCTED BY

DEPARTMENT OF MATHAMETHICS

DURATION OF THE COURSE: ONE AND HALF MONTH

From JULY 4th 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 - competitive 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. $5 \times 10 = 50 \text{ M}$

- 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 15th 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 exa

