



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 FOR BANK EXAMS"

CONDUCTED

BY

DEPARTMENT OF MATHEMATICS

DURATION OF THE COURSE: ONE MONTH

From JANAUARY 28th 2023 to FEBUARY 28TH 2023

SCHEDULE: EVERY DAY 4PM to 5PM



ATTENDANCE

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

MODEL OF EXAMINATION

The Examination Paper will consist of 100Marks

&

External Exam pattern 5x10=50[Allquestionsmandatory].

Internal Exam pattern 5x10=50[Allquestionsmandatory].

PASSING REQUIREMENT

Candidates have to secure minimum50% 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

1. AVERAGES
2. L.C.M&H.C.F
3. PROBLEMS ON AGES
4. PROBLEMS ON NUMBERS

UNIT-II

1. PERCENTAGES
2. PARTNERSHIP
3. RATIO&PROPORTIONS
4. ALLIGATIONS (or) MIXTURE

UNIT-III

1. PROFIT&LOSS
2. SIMPLE INTERST
3. COMPOUND INTEREST
4. TIME & WORK

UNIT-IV

1. FRACTIONS
2. PIPES & CISTERN
3. SPEED, TIME & DISTANCE
4. MENSURATION.

MODEL QUESTION PAPER

COMPETATIVE MATHEMATICS

(ARTHEMATIC ABLITY)

(For the batches admitted in 2022-23 only)

Duration: 2Hrs

Max Marks: 50

Answer any **FIVE** of the Following. Each question carries **10** marks.

5 x 10 = 50 M

1. i) The average of runs of a cricket player of 10 innings was 32 how many runs must he make in his next innings so as to increase his average of runs by 4.
ii) The average of five consecutive odd numbers is 61 what is the difference between the highest and lowest numbers
2. i) Find the L.C.M of 60, 120 & 240.
ii) Find the H.C.F of 1200, 1400.
3. i) What must be added to each term of the ratio 2:5 so that it may equal 5:6.
ii) If $A:B = 7:9$ & $B:C = 3:5$ then $A:B:C$ is equal to.
4. i) Naresh brought four dozen pencils at Rs 10.80 a dozen and sold them for 80 paise each find his gain or loss.
ii) A vendor buys oranges of Rs 26 per dozen and sells them at five for Rs 13 Find his gain percent
5. i) In what time will Rs 8000 at 3% per annum produce the same interest as Rs 6000 does in 5 years at 4% simple interest.
ii) The compound interest on Rs 12000 for 9 months at 20% per annum interest being compounded quarterly.
6. i) 'A' is thrice as efficient as B, A takes 24 less than 'B' to complete a work if they work together in how many days will the work be.
ii) Suman and Latha working together then complete a task in 8 days. If Latha can complete the same task in 12 days then how many days will Suman take to complete the same task.
7. i) A man walking at the rate of 5 Km per Hr crosses a bridge in 15 Min the length of the bridge.
ii) A train is moving with the speed of 180 Km per Hr its speed [in meter per second].
8. i) Find the volume and surface area of a cuboid 16 Meters long, 14 meters broad and 7 meters high.
ii) If the radius of a sphere is increased by 50%, find the increase in percent volume and percent increase in the surface area.

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, ssc exams for higher studies like SET, NET, MCA, MBA and post - Graduation

Eligibility for the course:-

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

