GOVERNMENT DEGREE COLLEGE-NAIDUPET

SPSR NELLORE DIST, ANDHRA PRADESH-524126

Certificate Course

on

Objective Mathematics for Competitive Exams

2021-22

Department of Mathematics

From
The Department of Mathematics
Government Degree College
Naidupet

Date: 28/10/2021

To
The Principal
Government Degree College
Naidupet

Sir

Sub: Department of Mathematics - permission seeking to conduct certificate course on "Objective Mathematics for Competitive Exams"-Regarding.

I would like to submit that the Department of Mathematics has planned to conduct a certificate course for III year students from the academic year 2021-22 onwards.

At this juncture we request your honour to permit the department to organize the above requested certificate course instantly. This is for your favourable consent

Thanking you sir

Yours sincerely

Department of Mathematics
LECTURER IN MATHEMATICS
Govt.Degree College
Naidupet, SPS Nellore(Dist)

GOVERNMENT DEGREE COLLEGE-NAIDUPET

SPSR NELLORE DIST, ANDHRA PRADESH-524126

Circular

Date: 29/10/2021

All the final year students are here by instructed that, the Department of Mathematics is going to start a Certificate Course on "Objective Mathematics for Competitive Exams" from this academic year 2021-22 onwards.

So, interested students are directed to contact Department of Mathematics and register for the course.

Principal

PRINCIPAL,
Govt. Degree College
NAIDUPET, SPSR Nellore Di

III BSC (MPCS)

III BSC (MPC)

III BSC (MBC)

III BA

III BCom

ADD – ON PROGRAMME

Syllabus

Unit-I

Averages, numbers, problems on ages, missing numbers

Unit-II

Percentages, profit and loss, time and distance, odd man out.

Unit-III

Ratio and proportion, time and work, simple and compound interest.

Unit-IV

Statistics – mean, median and mode, relation between mean, median and mode

Add-on program for the year 2021-2022
program code : ADD-MAT-01
List of the candidates enrolled for the program

Sl. No	Name of the Candidate	class & group	Remarks
1.	T. Sireesha	III B.Com	
2.	P. Jyoshna	III B.Com	
3.	T. Vani	III B.Com	
4.	A. Gayathri	III B.Com	
5.	K. Haymavathi	III B.Com	
6.	A. Muni Rathnamma	III B.Com	
7.	N. Shruthi	III B.Com	
8.	P. Munirathnam	III B.Com	
9.	M. Kishore	III B.Com	
10	T. Savitha	III B.Com	
11.	P. Lakshmi	III B.Com	
12.	M. Tharun	III B.Com	
13.	P. Rakesh	III B.Com	
14.	T. Nagaraju	III B.Com	
15.	K. Ramanaiah	III B.Com	
16.	K. Dileep kumar	III B.S.C [M.B.C]	
17.	Y. Devendra kumar	III B.S.C [M.B.C]	
18.	M. Narayanamma	III B.S.C [M.B.C]	
19.	A. Mounika	III B.S.C [M.B.C]	
20.	D. Somasekhar	III B.S.C [M.B.C]	
21.	N. Bhavani	III B.A (H.E.P)	
22.	K. Jyoshna	III B.A [H.E.P]	
23.	S. chenchamma	III B.A [H.E.P]	

Sl. No	Name of the Candidate	Class & group	Remarks
24.	M. Nagamunemma	II B.A (H.E.P)	
25.	V. Maheswari	II B.A (H.E.P)	
26.	G. Rajeswari	II B.A (H.E.P)	
27.	M. Guru Swami	II B.A (H.E.P)	
28.	B. Vamsi krishna	II B.A (H.E.P)	
29.	B. Balaji	II B.A (H.E.P)	
30.	T. Jaga Desh	II B.A (H.E.P)	
31.	K. Vimala	II B.A (H.E.P)	
32.	R. Venkateswarlu	II B.Sc [M.P.C]	
33.	K. Vennela	II B.Sc [M.P.C]	
34.	K. Sumanthi	II B.Sc [M.P.C]	
35.	K. Bharathi	II B.Sc [M.P.C]	
36.	T. Kesava	II B.Sc [M.P.C]	
37.	K. Aruna	II B.Sc [M.P.CS]	
		II B.Sc [M.P.CS]	
38.	B. Malitha	II B.Sc [M.P.CS]	
39.	B. Sravani	II B.Sc [M.P.CS]	
40.	T. Ravali	II B.Sc [M.P.CS]	
41	K. Guruna senkhar	II B.Sc [M.P.CS]	
42	P. chandrasekhar	II B.Sc [M.P.CS]	
43	M. viswanath	II B.Sc [M.P.CS]	

program title objective mathematics for compititive Exams

Duration : 36 hours

Organised by

MODEL QUESTION PAPER

max Time : 2 hours
max. marks : 50

PART-A

Answer all the following multiple choice questions each question carries one mark.

(20×1=20)

1. Find the average of first 15 natural numbers?

   (a) 10   (b) 8   (c) 15   (d) 20

2.

3.

4.

- - -
- - -
- - -

20.

PART-B

Answer any six questions from the following ten questions. Each question carries five marks

(6×5=30)

1.

2.

3.

4.

- - -
- - -
- - -

10.

Test-I

question paper

Answer any five from the following each question carries 5 marks (5×5=25)

1. If 5th January 1991 was saturday. what day of the week was it on 4th march 1992.

2. If 6 men or 8 women can reap a field in 86 days how long will 14 men and 10 women take to reap it?

3. Find the compound interest on ₹8000 at 4% per annum for 2yr, compound annually.

4. Find the median of the observations 5, 15, 25, 35, 65, 75?

5. At what time between 10 clock and 2 o'clock will the hands of a clock be together.

6. log is what percent of 1 kg?

7. A and B together on do a piece of work in 12 days and A lone can do it in 18 days. In how many days can B alone do it?

8. what is the class mark of the interval 12.5 - 17.5 ?

Test - II

question paper :-

Answer any five from the following each question carries 5 marks. (5×5=25)

1. mahatma Gandhi was born on 20 october 1869. what was the day of the week?

2. A bike crosses a bridge with a speed of 108 km/h. what will be the length of the bridge, if the bike takes 8hr to crosses the bridge.

3. Find the compound interest on ₹2000 at 15% per annum for 2yr 4months, compound annually.

4. Find the mean of 68, 78, 74, 89 and 75.

5. The minute hand of a clock overtakes the hour hand at intervals of 63 mins of the correct time. How much does a clock gain or loss in a day?

6. A vendor sells apples at for 21, gaining 40%. How many apples did he buy for 1?

7. A sun at simple interest of 4% per annum amounts to ₹3120 in 5yr. find the sum.

8. For a given data mean is 40 and mode is 25, then find the median.

Final Test

question paper :-

PART-A

Answer all the following multiple choice questions.
each question carries one mark. ($20 \times 1 = 20$)

1. By which of the following a leap year must be divisible?
   (a) 9 (b) 6   (c) 5 (d) 4

2. The ratio of smita's age to her mother's is $3:7$ respectively and the difference in their ages is 32yr. What will be the ratio of their ages 4yr hence?
   (a) 4:19   (b) 5:14 (c) 3:20   (d) 7:15

3. 25% of what amount of money is equal to 12½% of ₹180?
   (a) ₹120   (b) ₹75 (c) ₹80 (d) ₹90

4. A sales man expects a gain of 13% on his cost price. If in a month his sale was ₹791000, then what was his profit?

5. What will be the angle between the hands of a clock when the time is at 4:40 pm?

6. What was the day of the week on 17th August, 2010?
   (a) sunday (b) wednesday (c) Tuesday (d) Friday

7. Before 7yr, the ratio of ages of A and B was 3:4, After 9yr, ratio of their ages will be 7:8 the present age of B will be
   (a) 16yr (b) 19yr (c) 28yr (d) 23yr

8. 27 is 5.6% of ?
   (a) 750 (b) 75   (c) 1500   (d) 875

9. The speed of a bus is 72 km/h. The distance covered by the time in 5s is
   (a) 50m (b) 44.5 cm   (c) 100cm (d) 60cm

10. If speed of $31/3$ m/s is converted to km/h. then it would be

    (a) 8 km/h   (b) 9 km/h   (c) 10 km/h   (d) 12 km/h

11. Find the mean proportional between 9 and 64.

    (a) 25   (b) 24   (c) 27   (d) 35

12.   12 men can do a peice of work in 24 days. How many days are needed to complete the work, if 8 men do this work.

13. At what percent annual compound interest rate a certain sum amounts to its 27 times in 3yr.

14. For a given data mean is 40 and mode is 25, then find median.

    (a) 35   (b) 30   (c) 25 (d) 20

15. find the mode of the given data $5,7,9,3,7,3,7,5,7$.

    (a) 1   (b) 3   (c) 7 (d) 9

16. find the sub-duplicate ratio of $81:64$

    (a) $8:9$ (b) $4:9$ (c) $9:8$ (d) $7:8$

17. 15 men complete a work in 16 days. If 24 men are employed, then the time required to complete that work will be

    (a) 7 days   (b) 8 days   (c) 10 days (d) 12 days.

18. How long will a sum of money inverted at 5% per annum SI take to increase its value by 50%.

19. Find the median of the observation $6, 42, 14, 46, 16, 42, 26, 34, 28$.

    (a) 26   (b) 28   (c) 30   (d) 32

20. In the following distribution, man is

x	3	4	5	6	7	8	9	10
f	2	4	2	3	5	4	3	7

    (a) 10   (b) 7   (c) 7.1 (d) 6.5

Answer any six questions from the following the questions. Each question carries five marks.   6×5 = 30)

1. At what time between 7 o'clock and 8 o'clock in the morning will the both hands of a clock be at right angle?

2. Find out the average at 308, 125, 45, 120 and 102.

3. A person buys a toy for ₹50 and sells it for ₹75 what will be his gain percent?

4. A and B together can do a peice of works in 12 days and A alone can do it in 18 days. In how many days can B alone do it?

5. For a given data mean is 40 and mode is 25, then find the median.

6. What will be angle between the two hands of a clock at 9:50?

7. How many days are there in x weeks x days?

8. If 30% of a = 60, the find the value of a.

9. Find the greater ratio between 2:3 and 4:5.

10. Find the mean of 68, 78, 74, 79 and 75.

Course Outcomes:

After successful completion of this course, students will have the knowledge
and skills to

1. Apply quantitative reasoning and mathematical analysis methodologies to understand and solve problems.
2. Comprehend, work with, and apply general mathematical techniques and models to different real-life situations, not just plug problem-specific data into a given formula.
3. Solve the problems easily by using shortcut methods with time management which will be helpful to them to clear the competitive exams for better job opportunities.
4. Analyse the Problems logically and approach the problems in a different manner

Attendance Register

Academic Year: 2021-22
Students of which class: III B.SC (MPC), III B.SC (MPC), III BSC (MBC), III B.A, III BCom
Duration: 30 hours
Resource Person: Dr B. Suseelavathy

SN	Name of the Student	\Nov- 2021															Dec-2021											Jan-2022				Student Signature
		5	6	8	9	10	12	15	16	17	18	22	24	26	27	29	2	3	4	6	7	8	9	15	16	17	28	3	4	5	6	
1	T SIREESHA	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	T.SIREESHA
2	P JYOSHNA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P. Joshna
3	T VANI	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	P	Vani
4	A GAYATHRI	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	A. Gayathri
5	K HYMAVATHI	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	gayathri
6	A MUNIRATNAM	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	A. Muniratnam
7	N SHRUTHI	A	A	A	A	A	A	A	A	A	A	A	A	P	P	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Sruthi
8	P MUNIRATNAM	A	P	P	A	A	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	P. Muniratnam
9	M KISHORE	A	A	A	P	A	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	P	P	Kishore
10	T SAVITHA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	T. davitha
11	P LAKSHMI	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P Lakshmi
12	M THARUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	m. Tharun
13	P RAKESH	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P. Rakesh
14	T NAGARAJU	P	A	P	A	P	P	A	P	P	P	P	A	A	P	P	A	P	P	P	A	A	P	P	A	P	P	P	A	A	A	nagaraju
15	K RAMANAIAH	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	P	Ramanaiah

SN	Name of the Student	Nov- 2021															Dec-2021											Jan-2022				Student Signature
		5	6	8	9	10	12	15	16	17	18	22	24	26	27	29	2	3	4	6	7	8	9	15	16	17	28	3	4	5	6	
16	K DILEEP KUMAR	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Dileep kumar
17	Y DEVENDRA KUMAR	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	Y. Devendrakumar
18	M NARAYANAMMA	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	A	P	P	P	M. Narayanamma
19	A MOUNIKA	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	A. Mounika
20	D SOMASEKHAR	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	A	P	P	D. Somasekhar
21	N BHAVANI	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	Bhavani
22	K JYOSHNA	A	A	A	A	A	A	A	A	A	A	A	A	P	P	A	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Jyosna
23	S CHENCHAMMA	A	P	P	A	A	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	P	P	P	A	P	P	A	A	s.chenchamma
24	M NAYAMUNEMMA	A	A	A	P	A	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	P	P	Naya Munnemma
25	V MAHESWARI	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	V. Maheswari
26	G RAJESWARI	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G. Rajeswari
27	M GURU SWAMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	M. Guruswami
28	B VAMSI KRISHNA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	B.Vamikrishn
29	B BALAJI	P	A	P	A	P	P	A	P	P	P	P	A	A	P	P	A	P	P	P	A	A	P	P	A	P	P	P	P	A	A	A	B. Balaji
30	T JAGADESH	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	P	A	P	A	P	A	P	P	P	Jagadesh
31	K VIMALA	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	P	A	P	A	P	A	P	P	P	K Vimala

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S N	Name of the Student	Nov- 2021															Dec-2021											Jan-2022				Student Signature
		5	6	8	9	10	12	15	16	17	18	22	24	26	27	29	2	3	4	6	7	8	9	15	16	17	28	3	4	5	6	
32	R VENKATESWARLU	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	venkateswarlu
33	K VENNELA	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	K Vennela
34	K SUMANTHI	P	P	A	P	P	A	P	A	A	P	A	P	P	P	A	P	A	P	A	P	P	P	A	P	A	P	P	P	A	A	Sumathi
35	K BHARATHI	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	K. Bharathi
36	T KESAVA	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P	A	P	P	Kesava
37	K ARUNA	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	Aruna
38	B MAHITHA	P	A	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	A	P	P	A	A	A	B. Sravani
39	B SRAVANI	A	P	P	A	A	P	P	P	A	A	A	A	A	A	A	A	P	A	P	P	A	P	P	P	P	P	P	P	A	A	Ravali
40	T RAVALI.	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	Guna Sekhar
41	K GUNA SEKHAR	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P. chandra Sekhar
42	P CHANDRA SEKHAR	P	A	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	M Viswanath
43	M VISWANATH	A	A	A	P	A	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	P	A	A	A	A	A	A	A	P	P	

LECTURER IN MATHEMATICS
Govt Degree College
Naidupet, SPS Nellore(Dist)
Organizing secretary

Principal
Govt. Degree College
NAIDUPET, SPSR Nellore Dt.

Evaluation

The Course syllabus and evaluation pattern are decided by the department and approved by the principal. The evaluation is done by the department itself. Tests were conducted and the final grades are awarded. Each qualified student is awarded with a certificate. The awarding of grades is in the following pattern,

Grade A-more than 75%

Grade B- from 60% to 75%

Grade C- from 50% to 60%

Grade D-not qualified

Evaluation

SNo	Name Of the student	Grade	Result(P/F)
1	T SIREESHA	B	P
2	P JYOSHNA	B	P
3	T VANI	A	P
4	A GAYATHRI	B	P
5	K HYMAVATHI	A	P
6	A MUNIRATNAM	A	P
7	N SHRUTHI	C	P
8	P MUNIRATNAM	B	P
9	M KISHORE	D	F
10	T SAVITHA	B	P
11	P LAKSHMI	B	P
12	M THARUN	C	P
13	P RAKESH	D	F
14	T NAGARAJU	B	P
15	K RAMANAIAH	B	P

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Evaluation

SNo	Name Of the student	Grade	Result(P/F)
16	K DILEEP KUMAR	B	P
17	Y DEVENDRA KUMAR	B	P
18	M NARAYANAMMA	A	P
19	A MOUNIKA	B	P
20	D SOMASEKHAR	A	P
21	N BHAVANI	A	P
22	K JYOSHNA	C	P
23	S CHENCHAMMA	B	P
24	M NAYAMUNEMMA	D	F
25	V MAHESWARI	B	P
26	G RAJESWARI	B	P
27	M GURU SWAMI	C	P
28	B VAMSI KRISHNA	D	F
29	B BALAJI	B	P
30	T JAGADESH	B	P

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Principal

PRINCIPAL
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Evaluation

SNo	Name Of the student	Grade	Result(P/F)
31	K VIMALA	B	P
32	R VENKATESWARLU	B	P
33	K VENNELA	A	P
34	K SUMANTHI	B	P
35	K BHARATHI	A	P
36	T KESAVA	A	P
37	K ARUNA	C	P
38	B MAHITHA	B	P
39	B SRAVANI	D	F
40	T RAVALI	B	P
41	K GUNA SEKHAR	B	P
42	P CHANDRA SEKHAR	C	P
43	M VISWANATH	D	F

Principal Dr M. Madhusudana Varma and Dr B. Sueelavathy handing over the certificate to the Successful candidate

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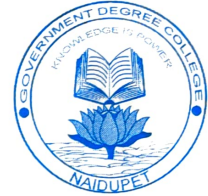
Principal Dr M. Madhusudana Varma and Dr B. Sueelavathy handing over the certificate to the Successful candidate

GOVT. DEGREE COLLEGE, NAIDUPET

(Re accredited with 'B' Grade by NAAC)

SPSR Nellore Dist., A.P.

CERTIFICATE

This is to Certify that Mr/Kum...

of...has attended the Add on programme on

....Conducted by the Dept. of.......................................

during the academic year 20   - 20   and Qualified with Grade......................

Convener

Principal