

**SRI JAGADGURU MURUGHARAJENDRA  
COLLEGE OF ARTS, SCIENCE & COMMERCE  
CHANDRAVALLI, CHITRADURGA-577502**

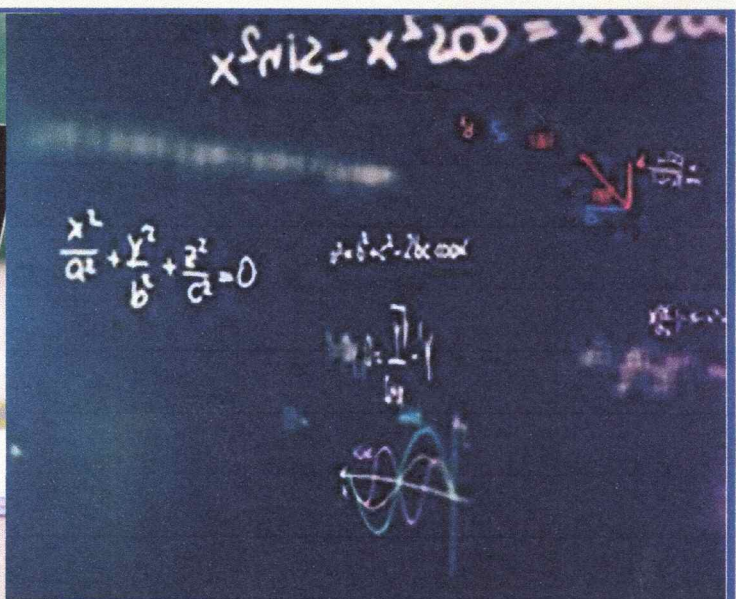
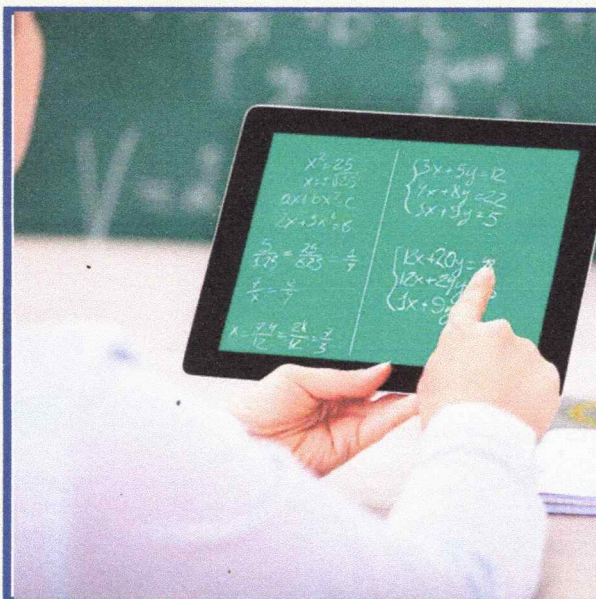


Affiliated to Davangere University, Davangere  
Accredited with 'A' Grade Third cycle

**DEPARTMENT OF MATHEMATICS  
IQAC INITIATIVE IN ASSOCIATION WITH**

**CERTIFICATE COURSE IN  
COMPETITIVE MATHEMATICS**

**From :14-03-2023 To 30-05-2023**



http : //www.sjmascchitradurga.edu.in  
email : sjmasccta@rediffmail.com

ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ಠಿ.) ಚಿತ್ರದುರ್ಗ

☎ ಕಛೇರಿ : 08194-222506

**ಶ್ರೀ ಜಗದ್ಗುರು ಮುರುಘರಾಜೇಂದ್ರ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ**

ಚಂದ್ರವಳ್ಳಿ, ಚಿತ್ರದುರ್ಗ - 577 501. ಪೋಸ್ಟ್ ಬಾಕ್ಸ್ ನಂ. 88

ನ್ಯಾಕ್ ಪುನರಾಸ್ಥಾಪನೆ : 'ಎ' ಗ್ರೇಡ್ ಸಿ.ಐ.ಸಿ.ಎ. 3.05

**SRI JAGADGURU MURUGHARAJENDRA COLLEGE OF ARTS, SCIENCE & COMMERCE**

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka

NAAC Reaccredited with 'A' Grade CGPA 3.05

ಕ್ರಮಾಂಕ : ಎಸ್.ಜಿ.ಎಂ.ಸಿ. /

/ 20 -20

ದಿನಾಂಕ : 07-03-2023

## NOTICE

As the world outside is too competitive, we want our students to be more competitive. All the competitive exams today, mostly, consist of Basic mathematical calculations. Henceforth, Department of Mathematics has decided to introduce a Certificate Course in Competitive Mathematics.

Students are asked to attend the classes regularly for their own benefits and bright future.

  
PRINCIPAL  
Sri Jagadguru Murugharajendra College  
of Arts, Science & Commerce  
CHITRADURGA

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ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.) ಚಿತ್ರದುರ್ಗ

ಕಛೇರಿ : 577 501

**ಶ್ರೀ ಜಗದ್ಗುರು ಮುರುಘರಾಜೇಂದ್ರ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ**

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/ 20 -20

ದಿನಾಂಕ : 09-03-2023

## :: Circular ::

With the consent of the following, we have framed BOS Members for the Certificate Course on Competitive Mathematics to be conducted for the academic year 2022-23.

1. Dr. Dinesh Kumar,  
Dept.of Mathematics in P.G. Studies,  
Govt. Science College, Chitradurga.
2. Dr. Ganesh, Dept. of Mathematics  
S.J.M.I.T. Chitradurga.
3. Smt. Sangeetha Singh  
Lecturer in Mathematics  
Chaitanya P.U. College, Chitradurga
4. Prof. V.S.Nalini  
HOD of Mathematics  
S.J.M. Arts, Science & Commerce College  
Chandravalli, Chitradurga.
5. Kum. S.R.Pavithra  
Faculty, Dept.of Mathematics  
S.J.M. Arts, Science & Commerce College  
Chandravalli, Chitradurga.

  
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ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.) ಚಿತ್ರದುರ್ಗ

☎ ಕಛೇರಿ 08194-222566

ಶ್ರೀ ಜಗದ್ಗುರು ಮುರುಘರಾಜೇಂದ್ರ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ

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ನ್ಯಾಕ್ ಪುನರಾನ್ವೇಷಣೆ : 'ಎ' ಗ್ರೇಡ್ ಸಿ.ಐ.ಒ.ಎ. 3.05



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**NAAC Reaccredited with 'A' Grade CGPA 3.05**

ಕ್ರಮಾಂಕ : ಎಸ್.ಜಿ.ಎಂ.ಸಿ. /  
To,

/ 20 -20

ದಿನಾಂಕ : 09-03-2023

Dr.Dinesh Kumar  
Department of Mathematics in P.G.Studies  
Govt.Science College,  
Chitradurga.

Sir,

Sub: Regarding providing service as B.O.S.Chairman for  
Certificate Course.

\*\*\*

The Department of Mathematics has Planned to conduct a Certificate Course on "Competitive Mathematics" for Academic Year-2022-23 for B.Sc Students.

Hence, I am requesting you to provide your valuable service as a B.O.S.Chairman for the same.

Thanking you ,

**PRINCIPAL**  
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ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.) ಚಿತ್ರದುರ್ಗ

☎ ಕಛೇರಿ : 08194-222506

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ಕ್ರಮಾಂಕ : ಎಸ್.ಜಿ.ಎಂ.ಸಿ. /

/ 20 -20

ದಿನಾಂಕ : 09-03-2023

To,

Dr.Ganesh.K

Department of Mathematics,

S.J.M.I.T ,Chitradurga.

Sir,

Sub: Regarding providing service as Recourse Person for  
Certificate Course.

\*\*\*

The Department of Mathematics has Planned to conduct a Certificate Course on "Competitive Mathematics" for Academic Year-2022-23 for B.Sc Students.

Hence, I am requesting you to provide your valuable service as a Resource Person for the same.

Thanking you ,



PRINCIPAL

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CHITRADURGA

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ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.) ಚಿತ್ರದುರ್ಗ

☎ ಕಛೇರಿ 08194-222500

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ನ್ಯಾಕ್ ಸುನರಾನ್ಯತೆ : 'ಎ' ಗ್ರೇಡ್ ಸಿ.ಐ.ಡಿ.ಎ. 3.05



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/ 20 -20

ದಿನಾಂಕ : 09-03-2023

To,

Smt.Sangeetha Singh  
Department of Mathematics,  
Chaitanya P.U.College ,  
Chitradurga.

Sir,

Sub: Regarding providing service as Recourse Person for  
Certificate Course.

\*\*\*

The Department of Mathematics has Planned to conduct a Certificate Course on "Competitive Mathematics" for Academic Year-2022-23 for B.Sc Students.

Hence, I am requesting you to provide your valuable service as a Resource Person for the same.

Thanking you ,

  
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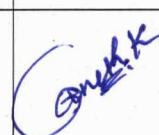

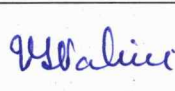
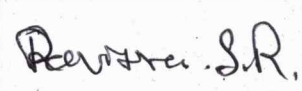
ದಿನಾಂಕ : 10-03-2023

:: NOTICE ::

Sub: Board of Studies Meeting on Certificate Course.

A Meeting of the following BOS Members constituted is here by convened on 10.03.2023 at 11 AM in the department of Mathematics, S.J.M. Arts, Science & Commerce College, Chitradurga.

Board of Appointment of BOS Members for Certificate Course in  
Competitive Mathematics

1	Dr.Dinesh Kumar, Dept. Of Mathematics in P.G.Studies, Govt.Science College, Chitradurga.	BOS Chairman	
2	Dr.K.Ganesh, Dept. Of Mathematics, S.J.M.I.T , Chitradurga.	Resource Person	
3	Smt.Sangeetha Singh, Lecturer in Mathematics Chaitanya P.U.College, Chitradurga.	Resource Person	
4	Prof .V.S.Nalini, HOD. Of Mathematics, S.J.M. Arts, Science & Commerce College, Chandravalli, Chitradurga.	Member and Course Co-ordinator	
5	Kum.S.R.Pavithra, Faculty, Dept. Of Mathematics, S.J.M. Arts, Science & Commerce College, Chandravalli, Chitradurga.	Member	

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ನ್ಯಾಕ್ ಸುನರ್ವ್ಯಾಚ : ಎ' ಗ್ರೇಡ್ ಸಿ.ಜಿ.ಸಿ.ಎ. 3.05

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/ 20 -20

ದಿನಾಂಕ : 10.03.23

:: MEETING PROCEEDINGS ::

The Meeting of BOS in Mathematics under the Chairmanship of Dr.Dinesh Kumar which was held on 10-03-2023 at S.J.M.College of Arts, Science & Commerce Chandravalli, Chitradurga.

The Syllabus for the Certificate Course on "Competitive Mathematics" was unanimously approved by all the BOS Members.

Signature of BOS Members

1. Dr. Dinesh Kumar



2. Dr. K. Ganesh.



3. Smt. Sangeetha Singh




4. Prof. V-S. Nalini



5. Kum. S.R. Pavithra.



  
V.S. NALINI  
Head of the Department of Mathematics  
S.J.M. College, Chandravalli  
Chitradurga



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ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ಡಿ.) ಚಿತ್ರದುರ್ಗ



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/ 20 -20

ದಿನಾಂಕ : 10-03-2023

## Syllabus of Certificate Course in Competitive Mathematics

Course Code: MATCC01

Duration: 32Hrs

- |                                                                                                                                                                                                                                                                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>1. MATHEMATICAL REASONING</b>                                                                                                                                                                                                                                   | <b>06 Hrs</b> |
| <ul style="list-style-type: none"><li>• Types of reasoning</li><li>• Number series</li><li>• Alphabet series</li><li>• Letter series</li><li>• Coding and Decoding</li></ul>                                                                                       |               |
| <b>2. ARITHMETIC REASONING</b>                                                                                                                                                                                                                                     | <b>16Hrs</b>  |
| <ul style="list-style-type: none"><li>• Fractions</li><li>• Time and Distance</li><li>• Ratio.</li><li>• Proportion and Percentage</li><li>• Profit and Loss</li><li>• Interest and Discounting</li><li>• Averages</li><li>• Permutation and Combination</li></ul> |               |

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/ 20 -20

ದಿನಾಂಕ : .....

- Time and Work
- Age
- Direction sense test

**3. LOGICAL VENN DIAGRAMS**

05Hrs

- Venn diagrams
- Intersecting figures
- Syllogism

**4. DATA INTERPRETATION**

05Hrs

- Data
- Table Chart
- Bar Chart
- Histogram
- Line and Pie Chart

**V.S. NALINI**

Head of the Department of Mathematics  
S.J.M. College, Chandravalli  
Chitradurga

http : //www.sjmascchitradurga.edu.in ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.) ಚಿತ್ರದುರ್ಗ  
email : sjmasccta@rediffmail.com

☎ ಕಛೇರಿ : 08101227506

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/ 20 -20

ದಿನಾಂಕ : 1.10.2023

**Certificate Course in  
Competitive Mathematics-2022-23  
Time-Table**

**Class: IInd Year B.Sc**

DAY	I 8-9	II 9- 10	III 10.10- to11-10	IV 11.10- 12-10	V 12.10 to 1.10	VI 2-3	VII 3-4	VIII 4-5
TUE					Competitive Mathematics			
WED					Competitive Mathematics			
THU					Competitive Mathematics			

  
**V.S NALINI**  
Head of the Department of Mathematics  
S.J.M. College, Chandravalli  
Chitradurga

S.J.M. College of Arts, Science & Commerce Chandravalli, Chitradurga



**Students Enrolled for Certificate Course on  
Competitive Mathematics-2022-23**

Sl.No	Student Name	Course
1	Uzma Banu	II B.Sc
2	Ajay S	"
3	Priya M T	"
4	Sonika E	"
5	Priya C V	"
6	Shwetha Kumari C N	"
7	Rashmi P R	"
8	Bhoomika C N	"
9	Tejaswini S	"
10	Ashalakshmi A	"
11	Jamuna G	"
12	Rakshtha Bai S	"
13	Pooja Kumari H N	"
14	Chandana D	"
15	Syeda Saniya S	"
16	Keerthi Reddy	"
17	Veeresh S	"
18	Madan Keshav	"
19	Syeda Mehnaz	"
20	Abhilash M	"

Subject.....

Year 2022-2023

SERIAL NO.	ROLL NO.	NAME	14-3-23	15-3-23	16-3-23	21-3-23	23-3-23	25-3-23	29-3-23	30-3-23	5-4-23	6-4-23	11-4-23	12-4-23	13-4-23	18-4-23	19-4-23	20-4-23	25-4-23	26-4-23	27-4-23	2-5-23	3-5-23	4-5-23	9-5-23	10-5-23	15-5-23	16-5-23	17-5-23	18-5-23	23-5-23	25-5-23	PERCENTAGE	REMARKS		
1		Uzma Banu	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
2		Ajay.S.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
3		Priya M.T.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
4		Sonika.E.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
5		Priya.C.V.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
6		Swetha Kumari .C.N.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
7		Rashmi P.R.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
8		Bhoomika.c.N.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
9		Tejaswini.S.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
10		Ashalakshmi A.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
11		Jamuna B.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
12		Rakshita Bai.S.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
13		Pooja Kumari HN.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
14		Chandana. D.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
15		Syeda Saniya. S.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
16		Keerthi Reddy. M	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
17		Veeresh. S.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
18		Madan Keshav.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
19		Syeda Mehnaz.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
20		Abhilash. M.	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB	UB		
		Initial of LECTURER / TEACHER	Son	Son	K.S	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son	Son			



Department of Mathematics  
S.J.M. College Chandravalli  
Chitradurga

Principal,  
Sri Jagadguru Murugarajendra College  
of Arts, Science & Commerce,  
CHITRADURGA

**S.J.M COLLEGE OF ARTS, SCIENCE  
AND COMMERCE, CHANDRAVALLI.**



**COMPETITIVE MATHEMATICS**

Time: 60 Min

Maximum marks: 30

1. Select the option that is related to the third term in the same way as the second term is related to the first term.

BACTERIA : EXFWBUXF :: WOUNDS : ?

- (a) ZLSQFW (b) ZLRQGV (c) YLRQFV (d) ZRXQG

2. In a certain language, CHHAPAK is coded as DJKEUGR. How will MALANGA be coded in that language?

- (a) NCOESMH (b) NCEOSMC (c) NCOCMSC (d) NCOCSMC

3. Statements:  $A \leq H = P \geq B$ ;  $Q > L \geq I \leq V$ ;  $R \geq H < K = I$

Conclusions :

- I.  $B \leq L$   
II.  $V > A$

- a) Only conclusion I is true  
b) Only conclusion II is true  
c) Both conclusions I and II are true

- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

4. Statements:  $A > P = Z \leq H$ ;  $J B \geq Q$ ;  $C \geq Z = V \leq I$

Conclusions:

- I.  $A > B$
- II.  $J < H$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

5. Statements:  $S < Y = A \geq O$ ;  $F = L < D \leq U$ ;  $P > A \geq L < R$

Conclusions:

- I.  $A < B$
- II.  $I > L$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true



6.Statement: Some train is bus

Only a few bus is car

All car is van

Conclusions:

- I. Some train being car is a possibility
- II. Some bus is not van

Options: A. Only I follows

B. Only II follows

C. Either I or II follows

D. Neither I nor II follows

E. Both I and II follows

7. Statements: No lemon is aloe vera

Only a few aloe vera is cactus

All cactus is amla

Conclusions:

- I. No lemon is cactus
- II. Some amla is not lemon

Options : A. Only I follows

B. Only II follows

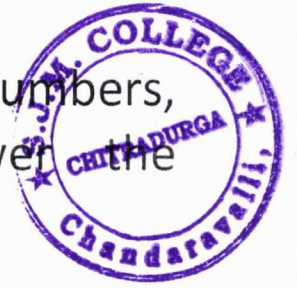
C. Either I or II follow

D. Neither I nor II follows

E. Both I and II follows



8. Study the following arrangement of numbers, symbols and letters carefully and answer the questions. (8-12)



**C & 7 B E 3 D \$ M 6 I 5 ! F 6 G # 4 1 W H 2 K %**

1. If all the numbers are removed from the given arrangement then which of the following will be the 6th element to the left of the 4th element from the right end of the arrangement so formed?

(a) G (b) M (c) ! (d) \$ (e) None of these

9. In the given arrangement, how many such consonants are there which are immediately followed by a number?

(a) Two (b) Three (c) One (d) Four (e) None of these

10. In the given arrangement, how many such letters are there which are immediately followed by a symbol and immediately preceded by a number?

(a) Three (b) Four (c) Two (d) One (e) None of these

11. In the given arrangement, if all the symbols and consonants are removed then which element is the 7th from the left end of the arrangement so formed?

(a) I (b) 6 (c) 5 (d) # (e) None of these

12. What is the sum of all the odd numbers between H and E in the given arrangement?

(a) 7 (b) 8 (c) 9 (d) 5 (e) None of these

13. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 2, 57, 7

Second row- 6, 225, 3

Third row- 5, ?, 2

(a) 192 (b) 127 (c) 172 (d) 129

14. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 9, 34, 72

Second row- 7, 26, 56

Third row- 23, 90, ?

(a) 184 (b) 148 (c) 146 (d) 164

15. Select the set in which the numbers are related in the same way as are the numbers of the set. (360, 12, 60)

(a) (362, 13, 54) (b) (342, 19, 36)

(c) (369, 15, 78) (d) (398, 16, 34)

16. 75 gm of sugar solution has 30% sugar in it. Then the quantity of sugar that should be added to the solution to make the quantity of the sugar 70% in the solution is

(a) 125 gm (b) 100 gm (c) 120 gm (d) 130 gm





17. The price of an article is reduced by 25% but the daily sale of the article is increased by 30%. The net effect on the daily sale receipts is

- (a)  $2\frac{1}{2}$  % increase    (b)  $2\frac{1}{2}$  % decrease  
(c) 2 % increase        (d) 2 % decrease

18. The cost was first increased by 20% and later on it was reduced by 20%. The present cost of the article is

- (a) Rs. 72    (b) Rs. 60    (c) Rs. 75    (d) Rs. 90

19. When the price of an article was reduced by 20%, its sale increased by 80%. What was the net effect on the sale?

- (a) 44% increase    (b) 44% decrease  
(c) 66% increase    (d) 75% increase

20. When the price of cloth was reduced by 25%, the quantity of cloth sold increased by 20%. What was the effect on the gross receipt of the shop?

- (a) 5% increase    (b) 5% decrease  
(c) 10% increase    (d) 10% decrease

21. The cost of an article worth Rs.100 is increased by 10% first and again increased by 10%. The total increase in rupees

- (a) 20    (b) 2112    (c) 110    (d) 121

22. In a class, the average score of girls in an examination is 73 and that of boys is 71. The average score for the whole class is 71.8. Find the percentage of girls.

(a) 40% (b) 50% (c) 55% (d) 60%

23. John invested a sum of money at an annual simple interest rate of 10%. At the end of four years the amount invested plus interest earned was Rs. 770. The amount invested was

(a) Rs. 650 (b) Rs. 350

(c) Rs. 550 (d) Rs. 500 (e) None of these

24. A man leaves Rs. 8,600 to be divided among 5 sons, 4 daughters and 2 nephews. If each daughter receives four times as much as each nephew and each son receives five times as much as each nephew, how much does each daughter receive?

(a) Rs. 100 (b) Rs. 600

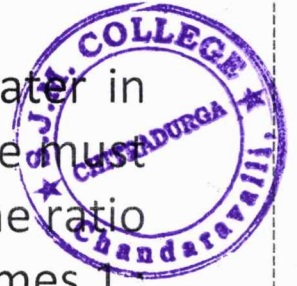
(c) Rs. 800 (d) Rs. 1000 (e) None of these

25. In a 45 litres mixture of milk and water, the ratio of the milk to water is 2 : 1. When some quantity of water is added to the mixture, this ratio becomes 1 : 2. The quantity of water added is

(a) 10 litres (b) 21 litres

(c) 35 litres (d) 45 litres (e) None of these





26. A barrel contains a mixture of wine and water in the ratio 3 : 1. How much fraction of the mixture must be drawn off and substituted by water so that the ratio of wine and water in the resultant mixture becomes 1 : 1 ?

(a)  $\frac{1}{4}$  (b)  $\frac{1}{3}$  (c)  $\frac{3}{4}$  (d)  $\frac{2}{3}$  (e) None of these

27. A boat takes half the time in moving a certain distance downstream than upstream. The ratio of the speed of the boat in still water and that of the current is

(a) 2 : 1 (b) 4 : 3 (c) 1 : 2 (d) 3 : 1 (e) None of these

28. A man rows 12 km in 5 hours against the stream, the speed of current being 4 kmph. What time will be taken by him to row 15 km with the stream?

(a) 1 hour 27 7 13 min (b) 1 hour 24 7 13 min 515

(c) 1 hour 25 7 13 min (d) 1 hour 26 7 13 min

(e) None of these

29. A motor boat covers a certain distance downstream in a river in 3 hours. It covers the same distance upstream in 3 hours and half. If the speed of the water is 1.5 km/h, then the speed of the boat in still water is

(a) 17 km/h (b) 17.5 km/h

(c) 19.5 km/h (d) 19 km/h (e) None of these



30. A train, with a uniform speed, crosses a platform, 162 metres long, in 18 seconds and another platform, 120 metres long, in 15 seconds. The speed of the train is

- (a) 14 km/hr    (b) 42 km/hr  
(c) 50.4 km/hr    (d) 67.2 km/hr    (e) None of these

31. Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. (31-35)

Statements: All books are copies

No copy is a pen.

Some erasers are books.

- I. Some copies are erasers.  
II. Some pens are books.  
III. No eraser is a pen.

- (a) Only conclusion II follows.  
(b) Both conclusions I and II follow.  
(c) Both conclusions I and III follow.  
(d) Only conclusion I follows.



32. Statements: All pillows are beds.

No table is a bed.

Some tables are chairs.

Conclusions:

- I. No pillow is a table.
- II. Some chairs are pillows.
- III. No bed is a chair.

- a) Only conclusion II follows.
- (b) Both conclusions I and II follow.
- (c) Both conclusions I and III follow.
- (d) Only conclusion I follows

33. Statements: All cranes are bears.

Some tigers are cranes.

All jackals are tigers.

Conclusion:

- I. Some bears are tigers.
- II. All jackals are bears.
- III. Some jackals are bears.

- a) Only conclusion II follows.
- (b) Only conclusions I and II follow.
- (c) Only conclusions I and III follow.
- (d) Only conclusion I follows.



34. Statements: All moons are suns.

No moon is a star.

Some stars are planets.

Conclusions:

- I. Some suns are planets.
- II. No sun is a star.
- III. No planet is a moon.

- a) Only conclusion II follows.
- (b) Both conclusions I and II follow.
- (c) Both conclusions I and III follow.
- (d) None of the conclusions follow.

35. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

17 : 48 :: 23 : 66 :: 15 : ?

- (a) 42 (b) 49 (c) 36 (d) 46



**S.J.M. College of Arts, Science & Commerce Chandravalli, Chitradurga**

**Students Marks List**

**Competitive Mathematics-2022-23**

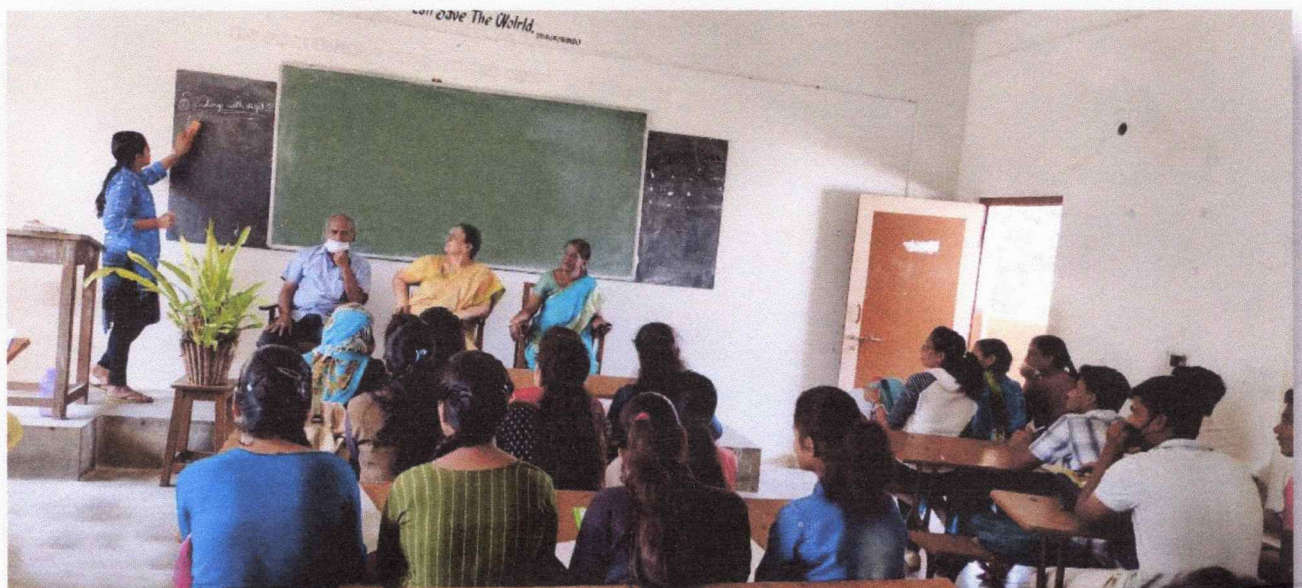
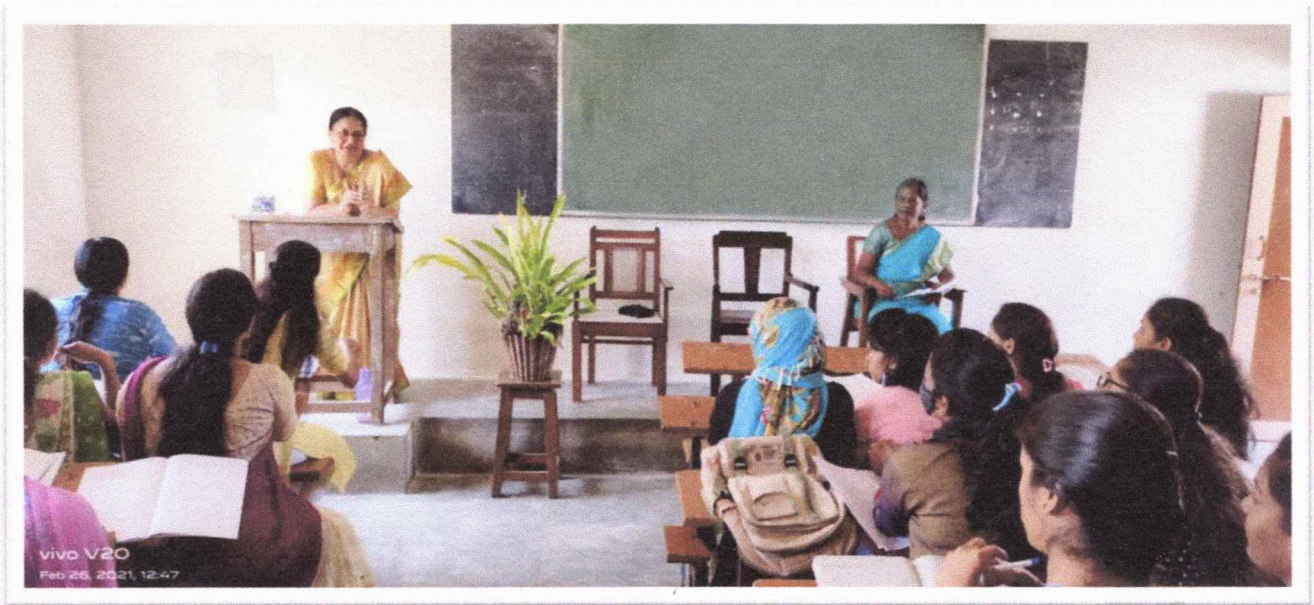
<b>Sl.No</b>	<b>Student Name</b>	<b>MARKS OBTAINED</b>
1	Uzma Banu	30
2	Ajay S	20
3	Priya M T	24
4	Sonika E	28
5	Priya C V	24
6	Shwetha Kumari C N	23
7	Rashmi P R	24
8	Bhoomika C N	25
9	Tejaswini S	28
10	Ashalakshmi A	27
11	Jamuna G	25
12	Rakshtha Bai S	24
13	Pooja Kumari H N	26
14	Chandana D	28
15	Syeda Saniya S	28
16	Keerthi Reddy	28
17	Veeresh S	24
18	Madan Keshav	22
19	Syeda Mehnaz	22
20	Abhilash M	20

*Wali*



**Certificate Course in  
Competitive Mathematics-2022-23**

**Photos**





# S.J.M COLLEGE OF ARTS, SCIENCE AND COMMERCE, CHANDRAVALLI.



## Report for Certificate Course on Competitive Mathematics

As the world outside is too competitive, we want our students to be competitive as well. To enhance their problem-solving skills, foster analytical thinking, our Dept. had decided to start a certificate course on competitive Maths. Certificate Course on Competitive Mathematics helped the students in various ways. It helped the students for preparing Competitive Exams and Mathematical challenges. And also helping them to be at par with this competitive world.

We had called upon BOS Meeting to design this course and the syllabus required. Our Alumini Dr.K.Ganesh & Smt.Sangeetha Singh had accepted to take this responsibility to prepare our students.

Overall 32 hours of course was designed and was taught to our Students. Thereafter, exam was conducted to check the progress of students and a satisfied result was observed.

**S.J.M. COLLEGE OF ARTS, SCIENCE & COMMERCE  
CHANDRAVALLI, CHITRADURGA**



**COURSE OUT COME FOR CERTIFICATE COURSE ON  
COMPETITIVE MATHEMATICS**

The recently concluded three months course on competitive Mathematics has yielded significant outcomes for our Graduation students. The course was designed to enhance problem-solving skills, foster analytical thinking and prepare students for competitive exams and mathematical challenges. The following outcomes were achieved :

**1. Enhanced problems solving abilities**

Students demonstrated a marked improvement in their ability to approach and solve complex mathematical problems.

**2. Advanced Analytical thinking**

The Course strengthened students analytical thinking capabilities. They learned to break down complex problems into manageable parts, identified patterns, apply logical reasoning to arrive at solutions.

**3. Increased Mathematical Proficiency**

Students gained a deeper understanding of key mathematical concepts and theories. The course covered advanced topics in Algebra, Geometry, Number theory, combinatorics, which are crucial for competitive mathematics.

**4. Improved Exam Readiness**

The Course prepared students for various competitive exams such as GRE, GMAT and Mathematics Olympiads.



# SJM COLLEGE OF ARTS, SCIENCE & COMMERCE

Chandravalli, Chitradurga – 577501



## DEPARTMENT OF MATHEMATICS

# CERTIFICATE

**BHOOMIKA C N**

This is to certify that Mr./Mrs. ....

of B.Sc. has participated in “Certificate Course on **“COMPETITIVE MATHEMATICS”** organized by the Department of Mathematics from 14.03.2023 to 30.05-2023 in our Institution.

  
Coordinator

  
Head of the Department

  
Principal