

Meeting - 2

13.06.2022

The department meeting was held in the Principal's Chamber on 13.06.2022. After discussing with the Principal-in-charge, faculty of Courses and the students of I.B.Sc (IMPCs), it is resolved to enrich the existing Curriculum by initiating a Certificate Course on "Logical and Reasoning Ability" for the benefit of students in the academic year 2021-2022. A proposal Seeking Permission to start the Course should be Submitted to the Principal within two days.

Course duration : 30-40 days

Students Intake : 20-30


Formative Assessment : 15M (MCQ's)

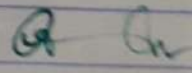
Summative Assessment : 25M (MCQ's)

B. Ravathi 13/06/2022

Course Coordinator

PRINCIPAL  
PRINCIPAL  
SCHVP.M.R.Govt.Degree College  
GANAPAVARAM-524108. (M.G. Dist)

1. Sri P. MadhuRaju, Lec in Physics - 

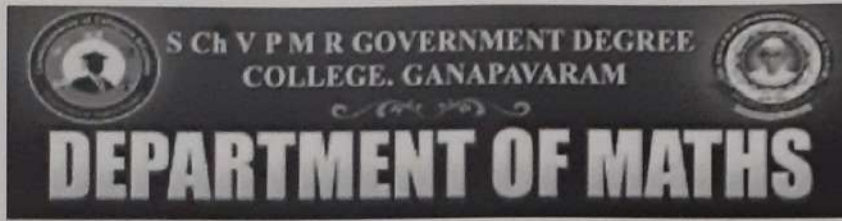
2. Dr. T. AkkiRaju, Lec in English - 

Student Representations:

1. N. Bhagya Lakshmi, IMPCs - N. Bhagya Lakshmi

2. P. Supriya, IMPCs - P. Supriya

3. P. Padma, IMPCs - P. Padma



Date. 13.06.2022

**From**

Smt B Revathi

In-charge, Dept. of Mathematics

SCHVPMR Govt. Degree College

Ganapavaram

**To**

The Principal

SCHVPMR Govt. Degree College

Ganapavaram

**Sub:** Curriculum Enrichment for 2021-22 - Dept. of Mathematics - proposal for starting a Certificate Course in Logical and Reasoning ability- Request for permission - Reg.

This is to submit that the Dept. of Mathematics is proposing to start a Certificate Course in "Logical and Reasoning ability" during the academic year 2021-22 so as to enrich the existing curriculum for the benefit of the students. Hence, this proposal is submitted seeking your permission.

<b>Course duration:</b>	30 to 40 days
<b>Student intake:</b>	20 to 30
<b>Name of Faculty:</b>	Smt B Revathi
<b>Formative Assessment</b>	15 marks (objective type)
<b>Summative Assessment</b>	25 marks (objective type)
<b>Qualifying mark</b>	15

**Objectives:**

- ❖ To solve the problem using appropriate types of reasoning.
- ❖ To develop skills in reasoning ability.
- ❖ To explain the development of reasoning in primary school mathematics.

*B. Revathi* 13/06/2022  
In-charge, Dept. of Mathematics



**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
GOVERNMENT DEGREE COLLEGE

GANAPAVARAM-534 198

ESTD. 1972 • AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY • ACCREDITED NAAC 'B'



Proceedings of the Principal (FAC), SCHVPMR Govt. Degree College, Ganapavaram

Present: *Dr M. Syambab, M.Sc., Ph. D.,*

Rc.No.23/9/CC-21-22

Dated 14.06.2022

Sub: Dept. of Mathematics - Proposal for Certificate Course in Logical and reasoning ability for the academic year 2021- 22- Permission granted - Orders issued - Reg.

The Principal, SCHVPMR Govt. Degree College, Ganapavaram is pleased to grant permission to launch a Certificate Course in “**Logical and Reasoning ability**” by the Department of Mathematics during the academic year 2021-22. The In-charge, Department of Mathematics is requested to follow the due procedure for conducting the said course and submit a report thereof.

PRINCIPAL *[Signature]*  
PRINCIPAL  
S.CH.V.P.M.R.Govt.Degree College  
GANAPAVARAM-534198. (W.G.DIST)



Circular - IV

16.06.2022

All the students of IB.Sc (MPCs) are hereby informed that the department of Mathematics of our College is going to start a Certificate Course on "Logical and Reasoning Ability" from 20.06.2022 to enrich the Curriculum. Hence all the students are requested to enroll in the course and make use of it.


- Enrollment forms are available in the department
- A Copy of Course syllabus is enclosed here with

Course Design:

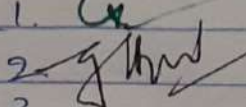
Title of the Course : Logical and Reasoning Ability  
 Course Duration : 30-40 days  
 Student Intake : 20-30 d  
 Course Start Date : 20.06.2022 (Time : 4:30 to 5:30pm)  
 Formative Assessment : 15M (MCQs)  
 Summative Assessment : 25M (MCQs)

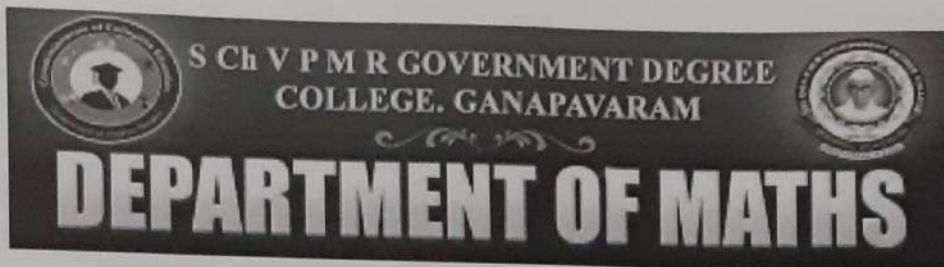
NOTE: 75% attendance is mandatory to be eligible to write the test. Qualifying mark is 15. All the qualified candidates are given certificates.

B. Revathi 16/06/2022  
 Course Coordinator

  
 PRINCIPAL 16/6/22  
 PRINCIPAL

S.CH.V.P.M.R. Govt. Degree College  
 GANAPAVARAM-534198. (W.G. Dist)

IMPCs - C. I. G.  
 2.   
 3.



## Certificate Course on “Logical and Reasoning ability”

Academic Year 2021-22

Total Instructional Hours: 30

### Syllabus

#### Unit 1: Alpha-numeric series and Coding-decoding (5 hours)

**Alpha-numeric series:** Missing series, alphabet-number-symbol series, alphabetical series, numerical series.

**Coding-decoding:** Letter coding, number coding, substitution coding, mixed letter coding, mixed number coding.

#### Unit 2: Clocks and Calendars. (6 hours)

**Clocks:** Definition and problems.

**Calendars:** Odd days, ordinary year, leap year and problems.

#### Unit 3: Data Sufficiency and Data interpretation.(8 hours)

**Data Sufficiency:** Definition and problems.

**Data interpretation:** Tabular charts, pie charts, line charts, bar graphs and its problems.

#### Unit 4: Directions and Seating arrangements.(5 hours)

**Directions :** Distance, directions, left-right movements and its problems.

**Seating arrangement:** Linear arrangement, square or rectangular arrangement, circular arrangement and its problems.

#### Unit 5: Squares and Cubes, and Blood Relations.(6 hours)

**Squares and Cube:** Definition and problems.

**Blood Relations:** Relations and problems.

B Revathi

Course Coordinator

PRINCIPAL

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**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
GOVERNMENT DEGREE COLLEGE  
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## Department of Mathematics

### Certificate Course on "Logical and Reasoning ability"

#### Course Outline

Course Duration	30 to 40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	20.06.2022
No. of Modules	5
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	Smt B Revathi

#### Student Registration Form

Date: 20/06/2022

Name of the Student : M V K Kumari  
Admission Number : 6967  
Batch : 2021-2022  
Year and Program studying : I B.Sc [MPCS]  
Semester : II

M.V.K. Kumari  
Signature of the Student

B Revathi  
Signature of the Course Coordinator



**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
GOVERNMENT DEGREE COLLEGE

GANAPAVARAM-534 198

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## Department of Mathematics

### Certificate Course on "Logical and Reasoning ability"

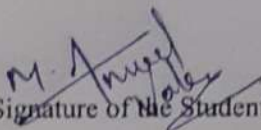
#### Course Outline

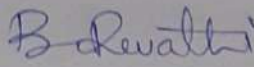
Course Duration	30 to 40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	20.06.2022
No. of Modules	5
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	Smt B Revathi

#### Student Registration Form

Date: 20.06.2022

Name of the Student : Mulyala Anand vardhan  
Admission Number : 6968  
Batch : 2021-22  
Year and Program studying : I Bsc Mpes  
Semester : II

  
Signature of the Student

  
Signature of the Course Coordinator



(Affiliated to Adikavi Nannaya University, Rajamahendravaram, A.P.)

Department of Mathematics  
Certificate course on "Logical and Reasoning ability"  
Academic Year: 2021-22

List of Students Enrolled

Sl No.	Admn No.	Class	Name of the Student	Signature of the Student
1	6966	I MPC	M Purnima	M. Purnima
2	6967	I MPC	M Venkata Krishna Kumari	M.V.K. Kumari
3	6968	I MPC	M Anand Vardhan	M. Anand Vardhan
4	6969	I MPC	N Bhagyalakshmi	N.B. lakshmi
5	6970	I MPC	N Harish	N. Harish
6	6971	I MPC	N Harika	N. Harika
7	6972	I MPC	Umadevi	P. Uma Devi
8	6973	I MPC	Pagadala Lakshmi Siri	P. Lakshmi Sri
9	6974	I MPC	Patamsetti Bhagyalakshmi	P. Bhagyalakshmi
10	6975	I MPC	Pativada Padma	P. Padma
11	6976	I MPC	Pentapati Nireesha	P. Nireesha
12	6977	I MPC	Pilla Supriya	P. Supriya



13	6978	I MPCS	Ponukumatla Ganga	P. Ganga
14	6979	I MPCS	Puvvala Jayavardhani Jayasri	P. J. V. Jayasri
15	6980	I MPCS	Puvvala Naga Babu	P. Nagababu.
16	6981	I MPCS	Reddi Ashok	R. Ashok
17	6982	I MPCS	Salimatti Tabitha	S. Tabitha.
18	6983	I MPCS	Sarika Satya Priyanka	Sarika satya Priyanka
19	6984	I MPCS	Tummuri Rajeswari	T. Rajeswari
20	6985	I MPCS	Uppati Renuka	U. Renuka

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Circular-VI



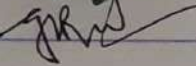
07.07.2022.

All the Students are hereby informed that a formative assessment test in "Logical and Reasoning ability" Certificate Course will be conducted on 11.07.2022.

Attendance in the test is mandatory.  
Syllabus prescribed for the test is

Unit I : Alpha-numeric Series & Coding-decoding.  
Unit II : clocks and calendars.

J. B. Sc (MPCs) -

1. 
2. 
3. 

B. Revathi 07/07/2022  
Course Coordinator.

  
PRINCIPAL 7/7/22  
PRINCIPAL

S.CH.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198. (W.G. Dist)

12/15

Certificate Course in "Logical and Reasoning Ability"  
Formative Assessment Test - 11.07.2022 Max. Marks: 15 Time: 30 minutes

Name of the Student: M. V. K. Kumari Group: IB Sc Adm. No.: 6967

1. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next? (b)
2. B2CD, \_\_\_\_\_, BCD4, B5CD, BC6D (b)
- a. B2C2D      b. BC3D      c. B2C3D      d. BCD7
3. Statement: Should India encourage exports, when most things are insufficient for internal use itself?

- Arguments:
- I. Yes. We have to earn foreign exchange to pay for our imports.  
II. No. Even selective encouragement would lead to shortages.
- a. Only argument I is strong  
b. Only argument II is strong  
c. Either I or II is strong  
d. Neither I nor II is strong  
e. Both I and II are strong
4. Statements: In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners. (a)

- Conclusions:
- I. 80% of the team consists of spinners.  
II. The opening batsmen were spinners.
- a. Only conclusion I follows  
b. Only conclusion II follows  
c. Either I or II follows  
d. Neither I nor II follows  
e. Both I and II follow

5. The reflex angle between the hands of a clock at 10.25 is: (d)
- a.  $180^\circ$       b.  $192\frac{1}{2}^\circ$       c.  $195^\circ$       d.  $197\frac{1}{2}^\circ$
6. How many times do the hands of a clock coincide in a day? (d)
- a. 20      b. 21      c. 22      d. 24

7. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010? (c)
- a. Sunday      b. Saturday      c. Friday      d. Wednesday
8. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010? (b)
- a. Monday      b. Friday      c. Sunday      d. Tuesday

9. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D? (b)
- a. Grandfather      b. Grandmother  
c. Daughter      d. Granddaughter

10. Eight people J, K, L, M, N, O, P and Q are sitting around a circular table, facing the center, not necessarily in the same order.
- O is sitting third to the right of M.
  - There is only one person sitting between M and J.
  - There are only three people between J and K. P is an immediate neighbour of J.
  - There are only three people between P and L.
  - N is second to the right of P.

- Who is sitting second to the left of the one who is sitting second to the left of Q? (a)
- a. M      b. K      c. N      d. L      e. J

11. A child is looking for his father. He went 90 meters in the East before turning to his right. He went 20 meters before turning to his right again to look for his father at his uncle's place 30 meters from this point. His father was not there. From here he went 100 meters to the North before meeting his father in a street. What is the smallest distance between the starting point and his father's position? (c)
- a. 80 meters      b. 100 meters  
c. 140 meters      d. 120 meters

12. Suppose that a particular 'TIGER' is written as 'QDFHS'. Find out how 'FISH' will be written in the same code. (b)
- a. GERH      b. GRHE      c. GREH      d. GHRE      e. GEHR

13.  $\sqrt{248} + \sqrt{51} + \sqrt{169}$  (b)
- a. 13      b. 16      c. 8      d. 11

14. Find the least square number which is exactly divisible by 10, 12, 15 and 18. (b)
- a. 169      b. 900      c. 324      d. 256

15. Find the greatest number of five digits which is a perfect square. (c)
- a. 99866      b. 99926      c. 99856      d. 99325



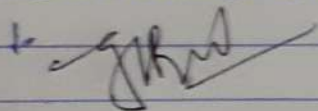
Circular - VII

12.08.2022

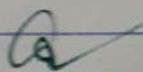
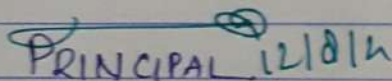
All the Students are hereby informed that the last day of instruction for the Certificate Course on "Logical and Reasoning Ability" is 12.08.2022. A Summative assessment Test will be conducted on 22.08.2022 on the entire Syllabus.

The qualifying mark to get the Certificate is 15. It is also informed that 75% of attendance during the Course is mandatory to appear for the test.

I B.Sc (MPCs)



2.


B. Dwathi 12/08/2022  
Course Coordinator


PRINCIPAL

S.O. V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198. (W.G. Dist)



August 2022

# Pupils Attendance Register

Sl. No.	Name	Date												
		1	2	3	4	5	6	7	8	9	10	11	12	13
6966	1 M. Pusinima							a		p	a	a		
6967	2 M.V. Krishna Kumari							p		p	p	p		
6968	3 M. Anand Vaardhan							p		p	p	p		
6969	4 N. Bhagya Lakshmi							p		p	p	p		
6970	5 N. Harish							p		p	p	p		
6971	6 N. Harika							p		p	a	p		
6972	7 P. Uma Devi							a		a	a	a		
6973	8 P. Lakshmi Siri							p		p	p	p		
6974	9 P. Bhagya Lakshmi							p		p	p	p		
6975	10 P. Padma							a		p	p	p		
6976	11 P. Nimesha							p		a	p	p		
6977	12 P. Supriya							p		p	p	p		
6978	13 P. Ganga							p		p	a	p		
6979	14 P. J.V. Jayasri							p		p	p	a		
6980	15 P. Nagababu							a		p	p	p		
6981	16 R. Ashok							p		p	p	p		
6982	17 S. Tabitha							p		a	p	p		
6983	18 S. Satya Priyanka							p		p	p	p		
6984	19 T. Rajeswari							p		a	p	p		
6985	20 U. Renuka							p		p	p	a		

Problems on U-4  
Squares & its tricks  
Cube & its tricks  
Blood Relations

Problems on relations

Problems on U-5  
Problem on  
overall topics

# పిల్లల హాజరుపట్టి

Date: \_\_\_\_\_  
Page: \_\_\_\_\_

Sl. No.	Name	Date													Total Consolidated	Signature of the Student	
		1	2	3	4	5	6	7	8	9	10	11	12	13			
6966	1 M. Pusinima							a		p	a	a		00	04	11%	
6967	2 M.V. Krishna Kumari							p		p	p	p		07	34	94%	M.V.K. Kumari
6968	3 M. Anand Vaardhan							p		p	p	p		08	36	100%	M. Anand Vaardhan
6969	4 N. Bhagya Lakshmi							p		p	p	p		08	34	94%	N. Bhagya Lakshmi
6970	5 N. Harish							p		p	p	p		07	34	94%	N. Harish
6971	6 N. Harika							p		p	a	p		07	030	83%	N. Harika
6972	7 P. Uma Devi							a		a	a	a		00	080	80%	
6973	8 P. Lakshmi Siri							p		p	p	p		08	32	89%	P. Lakshmi Siri
6974	9 P. Bhagya Lakshmi							p		p	p	p		08	33	92%	P. Bhagya Lakshmi
6975	10 P. Padma							a		p	p	p		06	31	86%	P. Padma
6976	11 P. Nimesha							p		a	p	p		05	27	75%	P. Nimesha
6977	12 P. Supriya							p		p	p	p		08	34	94%	P. Supriya
6978	13 P. Ganga							p		p	a	p		07	35	92%	P. Ganga
6979	14 P. J.V. Jayasri							p		p	p	a		07	31	86%	P. J.V. Jayasri
6980	15 P. Nagababu							a		p	p	p		06	30	83%	P. Nagababu
6981	16 R. Ashok							p		p	p	p		07	32	89%	R. Ashok
6982	17 S. Tabitha							p		a	p	p		07	31	86%	S. Tabitha
6983	18 S. Satya Priyanka							p		p	p	p		08	36	100%	S. Satya Priyanka
6984	19 T. Rajeswari							p		a	p	p		06	31	86%	T. Rajeswari
6985	20 U. Renuka							p		p	p	a		06	29	80%	U. Renuka

- Summative Assessment

B. Revathi 12/08/22  
COURSE COORDINATOR

Principal  
PRINCIPAL  
S.Ch.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198 (W.C.S.)



**Certificate Course in "Logical and Reasoning Ability"**

Summative Assessment Test - 22.08.2022 Max. Marks: 25 Time: 30 minutes

Name of the Student: M. V. K. Kurup Group: TPSC (MPC) Admn. No.: 6967

1. If NOIDA is written as OPJEB, then what will be the code for DELHI?  
 a. EFMAK    b. EFAMK    c. EFMIJ    d. EFMK (c) ✓
2. If CAT is coded as PATC, JOY is coded as POYJ; similarly the word WING will be coded as -  
 a. PIGNW    b. PINGW    c. PGNIW    d. PIWGN (b) ✓
3. Which number should come next in the series 1, 2, 3, 10, \_\_\_  
 a. 79    b. 99    c. 89    d. 98 (b) ✓
4. Which number is wrong in the series 2, 6, 15, 31, 56, 93?  
 a. 6    b. 31    c. 56    d. 93 (d) ✓
5. If PINK is coded as 1691411, then RED will be coded as -  
 a. 1963    b. 1854    c. 1853    d. 1954 (b) ✓
6. Which of the following is the odd one from the given alternatives?  
 a. Driving    b. Diving    c. Swimming    d. Sailing (c) ✓
7. The day before yesterday was Saturday. What will be the day after tomorrow?  
 a. Thursday    b. Friday    c. Wednesday    d. Monday (c) ✓
8. A book always has -  
 a. Pages    b. Story    c. Binding    d. Content (a) ✓
9. Which of the following set of letters complete the letter series, when sequentially placed at the gaps? bca \_ b \_ aabc \_ a \_ caa  
 a. ccab    b. bcbb    c. acab    d. Cbab (c) ✓
10. Arrange the following words in a meaningful sequence -  
 1. Selection    2. Probation    3. Interview  
 4. Appointment    5. Advertisement    6. Application  
 a. 5, 6, 3, 1, 4, 2    b. 5, 3, 1, 6, 4, 2    c. 1, 6, 3, 5, 4, 2    d. 2, 6, 3, 1, 5, 4 (a) ✓
11. Raman says "Anuj's mother is the only daughter of my mother." How is Anuj related to Raman?  
 a. Brother    b. Nephew    c. Father    d. None of the Above (b) ✓
12. Pointing to an image Madhu tells Sohan, "I am the only daughter of this lady, and her son is your maternal uncle." How is Madhu related to Sohan's father?  
 a. Sister    b. Wife    c. Sister-in-law    d. None of the above (c) ✓
13. A. is the mother of B    B. is the sister of C  
 C is the father of D. So, how is A related to D?  
 a. Grandmother    b. Mother    c. Aunt    d. Insufficient data (b) ✓
14. Peter is in the East of Tom and Tom is in the North of John. Mike is in the South of John then in which direction of Peter is Mike?  
 a. South-East    b. South-west    c. South    d. North-East (b) ✓
15. Tom walked 10 m towards north then turned right and walked 25 m. Then he turned right and walked 30 m. Now he turned left and walked 10 m. Finally, he turned left and walked 20 m. How far and in which direction is he from the starting point?  
 a. 50 m East    b. 30 m North    c. 40 m North    d. 35 m East (d) ✓
16. Who is the mother of B?  
 I. P and Q are sisters.  
 II. Q's husband is the brother of B's husband.  
 A. Statement I alone is sufficient, but statement II alone is not sufficient  
 B. Statement II alone is sufficient, but statement I alone is not sufficient  
 C. Either I or II is sufficient    D. Data in both the statements together are not sufficient  
 D. Both I and II are needed (d) ✓
17. What is Geeta's rank in the class?  
 I. There are 30 students in the class.  
 II. There are 10 students who scored less than Geeta.



- A. Statement I alone is sufficient, but statement II alone is not sufficient
- B. Statement II alone is sufficient, but statement I alone is not sufficient
- C. Either I or II is sufficient
- D. Data in both the statements together are not sufficient
- E. Both I and II are needed

**Directions (Q18 – Q22):** Study the information given below and answer the following questions: (e)

Mr X has built a mansion with 10 rooms. He was confused about the colours he should use while painting each room. He had the following choice of colours: blue, hazy gray, jumping yellow, teal, violet latte, Terry Cherry and happy pink. It was also known that he could paint more than 1 room with a single colour. Finally, he set up an algorithm to decide the colours that he would be using.

- If he painted any room teal, then he did not paint any other room happy pink.
  - If he painted any room blue, then he did not paint any other room jumping yellow.
  - If he painted any room blue, then he painted at least one room happy pink.
  - If he painted any room jumping yellow, then he painted at least one room violet latte.
  - If he painted any room violet latte, then he painted at least one room happy pink.
  - If he painted any room happy pink, then he painted at least rooms happy pink.
18. Which one of the following could be a complete list of the number of rooms and colours that Mr X used to paint some of the rooms of his house? (a)
- a. one blue, one Terry cherry, one violet latte, two happy pink
  - b. one blue, one teal, one Terry cherry, three happy pink
  - c. two blue, one teal, three Terry Cherry
  - d. one jacket, one Terry cherry, two violet latte and one happy pink
19. If Mr. X did not paint any room a happy pink, what was the maximum number of the different types of colours that he could paint? (b)
- a. Two    b. Three    c. four    d. Five
20. Which one of the following statements must be false? (d)
- a. Mr. X painted exactly four rooms with colours, one of which was a hat.
  - b. Mr. X painted exactly three rooms with colours, one of which was a happy pink.
  - c. Mr. X painted exactly four rooms with colours, one of which was blue.
  - d. None of these
21. If Mr. X painted as many different types of colours as possible, then it must be true that he did not paint one of the following types of colours. (c)
- a. Blue    b. Hazy gray    c. teal    d. Jumping yellow
22. If Mr. X painted at least one room, find out which one of the following are the minimum and the maximum numbers of the types of colours that he could paint? (b)
- a. 1, 4    b. 1, 5    c. 1, 6    d. 2, 5

**Directions (Q23 – Q25):** The two pie charts below show the percentage market share on value basis of the companies A to D and others in a sectorial market for 1999 and 2000

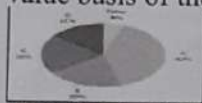


FIGURE 1: YEAR 1999

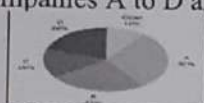


FIGURE 2 : YEAR 2000

Market size 1999= 150 crore Market size 2000= 375 crore

23. Which company had the minimum growth in sales in these two years? (d)
- a. B    b. A    c. C    d. Others
24. If each company increases its sales value by 10%, then what is the percentage growth of the detergent market? (a)
- a. 10%    b. 20%    c. 30%    d. 8%
25. If the total sales of the market are doubled for 1999 and 2000, what would be the ratio of sales of D for 2000 to 1999? (d)
- a. 2:1    b. 3:4    c. 15:8    d. 10:3

**Certificate Course in "Logical and Reasoning Ability"**

Summative Assessment Test - 22.08.2022 Max. Marks: 25 Time: 30 minutes

Name of the Student: Mithran Group: 1 Bsc mcs Admn. No.: 6968

1. If NOIDA is written as OPJEB, then what will be the code for DELHI?  
a. EFMAK    b. EFAMK    c. EFMIJ    d. EFMIK (c)
2. If CAT is coded as PATC, JOY is coded as POYJ; similarly the word WING will be coded as -  
a. PIGNW    b. PINGW    c. PGNIW    d. PIWGN (b)
3. Which number should come next in the series 1, 2, 3, 10, \_\_\_  
a. 79    b. 99    c. 89    d. 98 (b)
4. Which number is wrong in the series 2, 6, 15, 31, 56, 93?  
a. 6    b. 31    c. 56    d. 93 (d)
5. If PINK is coded as 1691411, then RED will be coded as -  
a. 1963    b. 1854    c. 1853    d. 1954 (a)
6. Which of the following is the odd one from the given alternatives?  
a. Driving    b. Diving    c. Swimming    d. Sailing (a)
7. The day before yesterday was Saturday. What will be the day after tomorrow?  
a. Thursday    b. Friday    c. Wednesday    d. Monday (c)
8. A book always has -  
a. Pages    b. Story    c. Binding    d. Content (a)
9. Which of the following set of letters complete the letter series, when sequentially placed at the gaps? bca \_ b \_ aabc \_ a \_ caa  
a. ccab    b. bcbb    c. acab    d. Cbab (b)
10. Arrange the following words in a meaningful sequence -  
1. Selection    2. Probation    3. Interview  
4. Appointment    5. Advertisement    6. Application  
a. 5, 6, 3, 1, 4, 2    b. 5, 3, 1, 6, 4, 2    c. 1, 6, 3, 5, 4, 2    d. 2, 6, 3, 1, 5, 4 (a)
11. Raman says "Anuj's mother is the only daughter of my mother." How is Anuj related to Raman?  
a. Brother    b. Nephew    c. Father    d. None of the Above (c)
12. Pointing to an image Madhu tells Sohan, "I am the only daughter of this lady, and her son is your maternal uncle." How is Madhu related to Sohan's father?  
a. Sister    b. Wife    c. Sister-in-law    d. None of the above (a)
13. A. is the mother of B    B. is the sister of C  
C is the father of D. So, how is A related to D?  
a. Grandmother    b. Mother    c. Aunt    d. Insufficient data (b)
14. Peter is in the East of Tom and Tom is in the North of John. Mike is in the South of John then in which direction of Peter is Mike?  
a. South-East    b. South-west    c. South    d. North-East (b)
15. Tom walked 10 m towards north then turned right and walked 25 m. Then he turned right and walked 30 m. Now he turned left and walked 10 m. Finally, he turned left and walked 20 m. How far and in which direction is he from the starting point?  
a. 50 m East    b. 30 m North    c. 40 m North    d. 35 m East (d)
16. Who is the mother of B?  
I. P and Q are sisters.  
II. Q's husband is the brother of B's husband.  
A. Statement I alone is sufficient, but statement II alone is not sufficient  
B. Statement II alone is sufficient, but statement I alone is not sufficient  
C. Either I or II is sufficient    D. Data in both the statements together are not sufficient  
D. Both I and II are needed (d)
17. What is Geeta's rank in the class?  
I. There are 30 students in the class.  
II. There are 10 students who scored less than Geeta.



- A. Statement I alone is sufficient, but statement II alone is not sufficient
- B. Statement II alone is sufficient, but statement I alone is not sufficient
- C. Either I or II is sufficient
- D. Data in both the statements together are not sufficient
- E. Both I and II are needed

(e)

**Directions (Q18 – Q22):** Study the information given below and answer the following questions:

Mr X has built a mansion with 10 rooms. He was confused about the colours he should use while painting each room. He had the following choice of colours: blue, hazy gray, jumping yellow, teal, violet latte, Terry Cherry and happy pink. It was also known that he could paint more than 1 room with a single colour. Finally, he set up an algorithm to decide the colours that he would be using.

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- If he painted any room violet latte, then he painted at least one room happy pink.
- If he painted any room happy pink, then he painted at least rooms happy pink.

18. Which one of the following could be a complete list of the number of rooms and colours that Mr X used to paint some of the rooms of his house?

- a. one blue, one Terry cherry, one violet latte, two happy pink
- b. one blue, one teal, one Terry cherry, three happy pink
- c. two blue, one teal, three Terry Cherry
- d. one jacket, one Terry cherry, two violet latte and one happy pink

(a)

19. If Mr. X did not paint any room a happy pink, what was the maximum number of the different types of colours that he could paint?

- a. Two b. Three c. four d. Five

(b)

20. Which one of the following statements must be false?

- a. Mr. X painted exactly four rooms with colours, one of which was a hat.
- b. Mr. X painted exactly three rooms with colours, one of which was a happy pink.
- c. Mr. X painted exactly four rooms with colours, one of which was blue.
- d. None of these

(d)

21. If Mr. X painted as many different types of colours as possible, then it must be true that he did not paint one of the following types of colours.

- a. Blue b. Hazy gray c. teal d. Jumping yellow

(a)

22. If Mr. X painted at least one room, find out which one of the following are the minimum and the maximum numbers of the types of colours that he could paint?

- a. 1, 4 b. 1, 5 c. 1, 6 d. 2, 5

(b)

**Directions (Q23 – Q25):** The two pie charts below show the percentage market share on value basis of the companies A to D and others in a sectorial market for 1999 and 2000



FIGURE 1: YEAR 1999



FIGURE 2 : YEAR 2000

Market size 1999= 150 crore Market size 2000= 375 crore

23. Which company had the minimum growth in sales in these two years?

- a. B b. A c. C d. Others

(a)

24. If each company increases its sales value by 10%, then what is the percentage growth of the detergent market?

- a. 10% b. 20% c. 30% d. 8%

(a)

25. If the total sales of the market are doubled for 1999 and 2000, what would be the ratio of sales of D for 2000 to 1999?

- a. 2:1 b. 3:4 c. 15:8 d. 10:3

(d)





SRI CHINTALAPATI VARA PRASADA MURTHY RAJU  
GOVERNMENT DEGREE COLLEGE

GANAPAVARAM-534198

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(Affiliated to Adikavi Nannaya University, Rajamahendravaram, A.P.)

Department of Mathematics

Certificate course on "Logical and Reasoning ability"

Academic Year: 2021-22

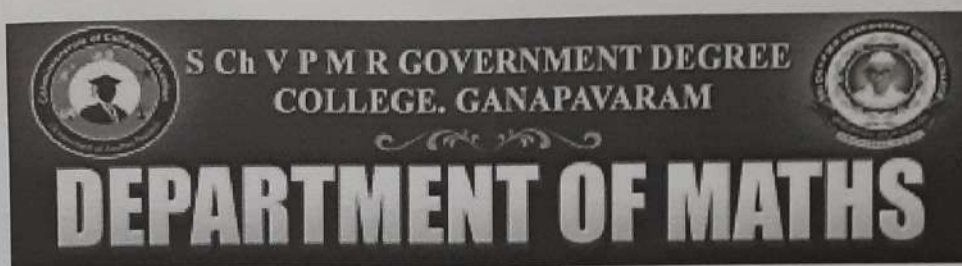
RESULT SHEET

Sl. No.	Admn. No.	Class	Name of the Student	FA	SA	Total	Grade	Signature of the Student
				Mark s	Mark s			
				15	25	40		
1	6966	I MPCS	M PURNIMA	ABSENT				
2	6967	I MPCS	M V K KUMARI	12	21	33	A	M V K Kumari
3	6968	I MPCS	M A VARDHAN	12	21	33	A	M. Anand
4	6969	I MPCS	N BHAGYALAKSHMI	11	24	35	A	N. B. Lakshmi
5	6970	I MPCS	N HARISH	09	18	27	B	N. Harish
6	6971	I MPCS	N HARIKA	10	17	27	B	N. Harika
7	6972	I MPCS	P UMADEVI	ABSENT				
8	6973	I MPCS	P LAKSHMI SIRI	12	20	32	A	P. Lakshmi Siri
9	6974	I MPCS	P BHAGYALAKSHMI	11	23	34	A	P. Bhagya Lakshmi
10	6975	I MPCS	P PADMA	12	22	34	A	P. Padma
11	6976	I MPCS	P NIREESHA	09	10	19	D	P. Nireesha
12	6977	I MPCS	P SUPRIYA	14	22	36	A	P. Supriya
13	6978	I MPCS	P GANGA	12	20	32	A	P. Ganga
14	6979	I MPCS	P J JAYASRI	13	16	29	B	P. J. v. Jayasri
15	6980	I MPCS	P NAGA BABU	12	19	31	A	P. Naga Babu
16	6981	I MPCS	R ASHOK	10	20	30	B	R. Ashok
17	6982	I MPCS	S TABITHA	11	19	30	B	S. Tabitha
18	6983	I MPCS	SSATYA PRIYANKA	14	22	36	A	Ssatya priyanka
19	6984	I MPCS	T RAJESWARI	11	18	29	B	T. Rajeswari
20	6985	I MPCS	U RENUKA	10	21	31	A	U. Renuka

Grade: > 30 - A, 26 to 30 - B, 21 to 25 - C, 15 to 20 - D, < 15 Fail

B Revathi  
B Revathi  
Course Coordinator

PRINCIPAL  
S.CH.V.P.M.R. Govt. Degree College  
GANAPAVARAM-534198. (W.G. Dist)



## Certificate Course on “Logical and Reasoning Ability”

### *Report*

Course started on 20<sup>th</sup> June 2022 with a view to enrich the curriculum by giving knowledge on Logical and reasoning ability. Twenty students from I B.Sc joined and eighteen students completed the course successfully. This course covered concepts such as alpha-numeric series, coding-decoding, clocks, calendars, data sufficiency, data interpretation, directions, seating arrangement, squares and cubes and blood relations. Finally, the course succeeds in making students solve logical problems and reasoning problems.

### **Course Outcomes**

- ❖ Students will use appropriate reasoning types in proving problems.
- ❖ Students will use appropriate types of reasoning in the problem solving process.
- ❖ Students will explain the development of reasoning in school mathematics.

*B Revathi*

B. Revathi

Course Coordinator

PRINCIPAL

S.CH.V.P.M.R.Govt.Degree College  
GANAPAVARAM-534198. (W.G.Dist)





**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
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## CERTIFICATE

This is to certify that

**MUTHYALA ANAND VARDHAN, I MPCS (Admission No. 6968)**

of

**SCHVPMR GOVERNMENT DEGREE COLLEGE, WEST GODAVARI, ANDHRA PRADESH**

Has successfully completed the certificate course in “LOGICAL AND REASONING ABILITY” conducted from 20 June to 12 August, 2022 offered by the Department of MATHEMATICS with grade “A”.

*B Revathi*

B. Revathi

Course Coordinator

*Dr T. Akki Raju*

Dr T. Akki Raju

IQAC Coordinator

*Dr M. Syambab*

Dr M. Syambab

Principal



**SRI CHINTALAPATI VARA PRASADA MURTHY RAJU**  
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## CERTIFICATE

This is to certify that

**MUMMIDIVARAPU VENKATA KRISHNA KUMARI, I MPCs (Admission No. 6967)**

of

**SCHVPMR GOVERNMENT DEGREE COLLEGE, WEST GODAVARI, ANDHRA PRADESH**

Has successfully completed the certificate course in “LOGICAL AND REASONING ABILITY” conducted from 20 June to 12 August, 2022 offered by the Department of MATHEMATICS with grade “A”.

*B. Revathi*

B. Revathi

Course Coordinator

*Dr T. Akki Raju*

Dr T. Akki Raju

IQAC Coordinator

*Dr M. Syambab*

Dr M. Syambab

Principal