

**SAS GOVERNMENT DEGREE COLLEGE
NARAYANAPURAM**



Department of Mathematics

**CERTIFICATE COURSE IN
Arithmetic And Reasoning
23/01/2020 to 27/02/2020.**

**Add on / Certificate programs offered during the
year 2019-20**



S.A.S. GOVERNMENT DEGREE COLLEGE

(AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY, RAJAMAHENDRAVARAM)

Phone: 08818 252189, E-mail: narayanapuram.jkc@gmail.com

NARAYANAPURAM, W.G DISTRICT-534406



CERTIFICATE COURSE AT A GLANCE

1. TITLE OF THE COURSE : **Arithmetic And Reasoning**
2. LEVEL OF THE COURSE : **UG**
3. NAME OF THE INSTRUCTOR : **Smt. S.S.S.RANI**
4. DURATION OF THE COURSE: **30 HOURS**
5. DATE OF COMMENCEMENT : **23.01.2020**
6. DATE OF CLOSURE : **27.02.2020**
7. TIME OF CONDUCT OF THE CLASSES: **09:00 PM – 10:00 AM**
8. NUMBER OF STUDENTS ENROLLED FOR THE COURSE: **07**
9. NUMBER OF STUDENTS COMPLETED THE COURSE: **07**
10. ASSESMENT CRITERION: **EVALUATION TEST**





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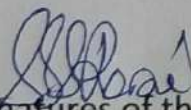
Minutes of Departmental Meeting on Certificate Course

The In Charge of the Department of Mathematics met in the principal's chamber under the chairperson ship of Mr T K Visveswara Rao at 2:30 PM on Dt: 02-01-2020 discussed and resolved as detailed here under.



After the through discussion on the agenda of conducting certificate course as per the departmental action plan, it was resolved to

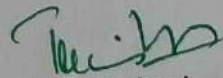
1. Conduct a certificate course titled "**Arithmetic and Reasoning**" with a duration of 30 hours during the working days
2. Frame the syllabus and regulations for the successful completion of certificate course
3. Conduct the examination after the completion of course and issue certificate to the qualified students
4. Serve notice to the students well in advance for the enrolment into this course
5. Commence the course on the date fixed obtaining due permission from the chair.
6. Set 40% of marks as eligibility for the completion of the course.


Signatures of the faculty

Incharge

Department of Mathematics

S.A.S. GOVERNMENT DEGREE COLLEGE
NARAYANAPURAM-534 406



Principal
PRINCIPAL

SAS GOVT. DEGREE COLLEGE
NARAYANAPURAM
West Godavari District.
Pin: 534 406, Andhra Pradesh

PERMISSION LETTER FOR CERTIFICATE COURSE

NARAYANAPURAM,

Dt. 04.01.2020

From
The In-charge,
Department of Mathematics,
SAS GDC, Narayanapuram.

To
The Principal,
SAS GDC, Narayanapuram.

Sir,

Sub: Department of Mathematics, SAS Govt. Degree College,
Narayanapuram-Conduct of Certificate course in **Arithmetic and Reasoning**
(30 hours) -Accordance of permission requested-Reg.

Ref: Minutes of the departmental meeting dated 02-01-2020

Adverting to the subject, I wish to submit to your kind self that the Department of Mathematics is planning to conduct a Certificate course in "**Business Mathematics**" with 30 hours duration for the students of our college as well as the general public . A resolution was passed to this effect in the Departmental meeting dated 27-12-2018. Hence, I request you to kindly accord permission to conduct the same from 03-01-2019 onwards.

Thanking you sir.

Enclosures

1. A xerox copy of the minutes of Departmental meeting dt. 27.12.2018
2. A copy of syllabus



[Signature]
Yours faithfully

Incharge
Department of Mathem
GOVERNMENT DEGREE COLL
NARAYANAPURAM-534 406



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NARAYANAPURAM, W.G DISTRICT-534406



PROCEEDINGS OF THE PRINCIPAL, SAS GOVT. DEGREE COLLEGE, NARAYANAPURAM

DATE: 10.01.2020

To
The In-charge,
Department of Mathematics,
SAS GDC
Narayanapuram .

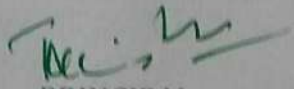
Sir/Madam,

Sub: SAS Govt. Degree college, Narayanapuram- Conduct of certificate course in
Arithmetic and Reasoning – Permission accorded- Reg.

Adverting to the subject, I hereby draw the kind attention of the in-charge of department of Mathematics of this college, that a decision was taken in the staff council meeting 02.01.2020 dated after much discussions and deliberation to approve and accord permission for the conduct of a certificate course **Arithmetic and Reasoning** with 30 hours duration for the general public as well as the students of our college from dt. 23-01-2020

You are further instructed to make all the necessary preparations and arrangements for the commencement of the course on dt . 23-01-2020.




PRINCIPAL
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SAS GOVT. DEGREE COLLEGE
NARAYANAPURAM
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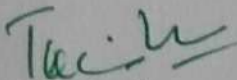


NOTICE

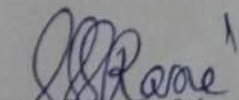
NARAYANAPURAM

Dt.20.01.2020

All the students of SAS Govt. Degree college, Narayanapuram are hereby informed that the Department of Mathematics is intending to conduct a certificate course in "Arithmetic and Reasoning" from 23-01-2020 onwards. The required permission from the honourable Principal of the college has been obtained. Hence the students who are interested in enrolling themselves for the course may please contact the in-charge of the department for further details on or before dt.23-01-2020.


Principal




In-charge of the dept.

Incharge
Department of Mathematics
SAS GOVERNMENT DEGREE COLLEGE
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Department of Mathematics

(CERTIFICATE COURSE IN Arithmetic and Reasoning)

Certificate Course

Syllabus

2019-20



ARITHMETIC & REASONING

UNIT - 1: Arithmetic ability: Algebraic operations BODMAS, Fractions, Divisibility rules, LCM & GCD (HCF). Verbal Reasoning: Number Series, Coding & Decoding, Blood relationship, Clocks, Calendars.

UNIT - 2: Quantitative aptitude: Averages, Ratio and proportion, Problems on ages, Time-distance - speed. Business computations: Percentages, Profit & loss, Partnership, simple compound interest.

UNIT - 3: Data Interpretation: Tabulation, Bar Graphs, Pie Charts, line Graphs. Venn diagrams.

Recommended Co-Curricular Activities Surprise tests / Viva-Voice / Problem solving/Group discussion.

Text Book: Quantitative Aptitude for Competitive Examination by R. S. Agrawal, S.Chand Publications.

Reference Books

1. Analytical skills by Showick Thorpe, published by S Chand And Company Limited, Ramnagar, New Delhi-110055
2. Quantitative Aptitude and Reasoning by R V Praveen, PHI publishers.
3. Quantitative Aptitude for Competitive Examination by Abhijit Guha, Tata Mc Graw Hill Publications.

MODEL QUESTION PAPER
B.A / B.Sc (CBCS) Degree Examination
Fourth Semester
Analytical skills

Time: One and half hour

Maximum 50 marks

Part – A - (4x5= 20marks)

Answer any Four from the following eight questions.



1. 3,128,183,213,228,235.5,?
3. Sum of ram, shyam and vijay present age is 72 years. Sum Ram and Shyam age is 42.years.Find the present age of Vijay?
4. A train 240 meter in length crosses a telegraph post in 16 seconds. Find the speed of the train.
5. What would be the compound interest accrued on a amount of Rs.8,000 at the rate of 15% per annum in 3 years?
6. A book was sold for Rs.27.50 with a profit of 10%.If where sold for Rs.25.75, then what would have been the percentage of profit or loss?
7. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25.
8. 370 candidates appeared for an examination of which 352 passed. Find the failure percentage.

SECTION-B- (3x10=30 marks)

Answer all the following questions(one from each unit)

UNIT-1

- 9(a) (i) Find the HCF of $2^2 \times 3^3 \times 5^5$, $2^3 \times 3^5 \times 5^2$, and $2^4 \times 3^4 \times 5^2$
(ii) Three numbers are in the ratio 1:2:3 and their H.C.F. is 12 .then find the

Numbers

(OR)

(b) Write about any four divisibility rules. Given examples

UNIT-2

10 (a) Find the compound interest on Rs 10,000 /- in two years at 4% per annum the interest being compounded half-yearly.

(OR)

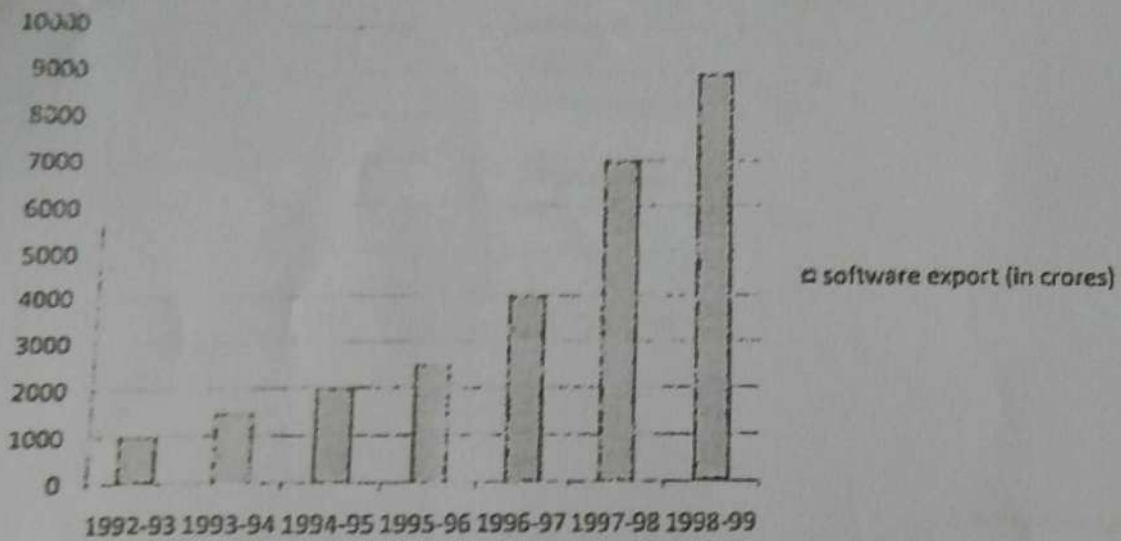
(b) A, B and C invested Rs.6,300; Rs.4,200 and Rs.10,500 respectively in a partnership business. Find the share of "A" in the profit of Rs.12,000 after a year.

UNIT-3

11 (a) Study the following graph carefully to answer the following questions.



software export (in crores)

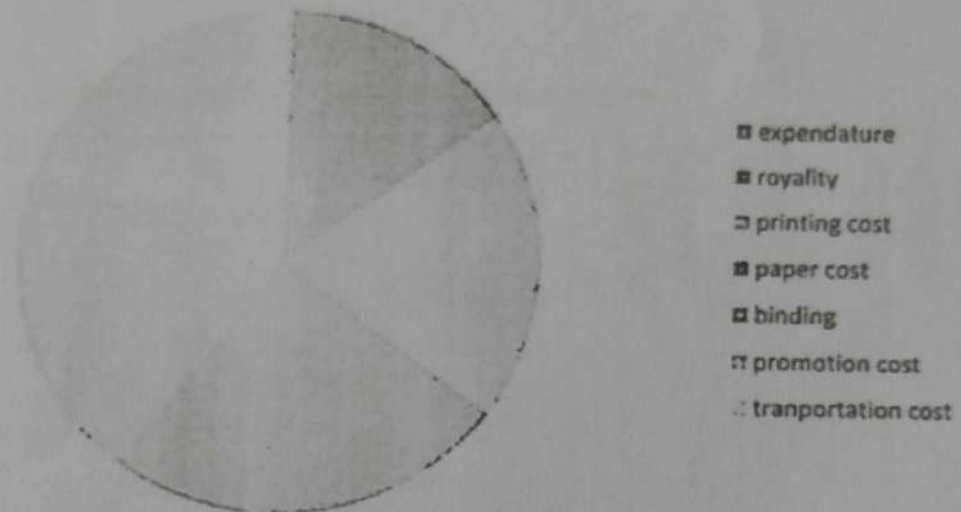


- (i) Find the average growth rate in software export from 1992-93 to 1998-99.
- (ii) Find the average growth per year of software export in rupees from 1992-93 to 1998-99.
- (b) study the pie chart and the answer the questions based on it.
Various expenditure (in percentage) incurred in publishing a book



royalty	15%
printing cost	20%
paper cost	25%
binding	20%
promotion cost	10%
transportation cost	10%

Column1



- (i) If for a certain quantity of books, the publisher has to pay rs .30,600 as printing cost, then what will be amount of royalty to be paid for these books?
- (ii) What is central angle of the sector corresponding to the expenditure incurred on royalty?
- (iii) Royalty on the book is less than the printing cost by?





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Department of Mathematics

2019-20

Certificate Course - Student Attendance Register



Sl.No.	Roll No.	Name of the Student	04/02/20	05/02/20	06/02/20	07/02/20	08/02/20	09/02/20	10/02/20	11/02/20	12/02/20	13/02/20	14/02/20	15/02/20
21	183558/00001	M. Nagendra	A	P	P	A	P	P	P	P	P	A	P	P
22	183558/00002	D. Adi lakshmi	P	A	P	P	A	P	P	P	A	P	P	P
23	183558/00003	B. Swarna	A	A	P	P	P	P	P	P	P	P	P	P
24	183558/00005	T. H Naga Subhasini	P	P	P	P	A	P	P	P	A	P	P	P
25	183558/00006	M. Sai Kiran	A	P	P	P	P	P	P	P	P	A	P	P
26	183558/00008	M. Anand Kishore	P	P	P	P	P	P	P	P	P	A	A	P
27	183558/00009	A. Durga Kalyan	P	A	P	P	A	P	P	P	P	A	P	P
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Signature of the Lecturer														

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Department of Mathematics

2019-20

Certificate Course - Student Attendance Register



Sl.No.	Roll No.	Name of the Student	17/02/20	18/02/20	19/02/20	20/02/20	21/02/20	22/02/20	23/02/20	24/02/20	25/02/20	26/02/20
21	183558/00001	M. Nagendra	A	P	P	A	P	P	P	P	A	P
22	183558/00002	D. Adi Lakshmi	P	P	P	A	P	P	P	P	P	P
23	183558/00003	B. Swarna	P	P	P	A	A	P	P	P	A	P
24	183558/00005	T.H Naga Subhasini	A	P	P	P	A	P	P	P	P	P
25	183558/00006	M. Skiran	P	P	P	P	A	P	A	P	A	A
26	183558/00008	M. Anand Kishore	P	P	P	P	P	P	A	P	P	A
27	183558/00009	A. Purga Kalyan	A	P	P	P	P	P	P	P	P	A
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Signature of the Lecturer												

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Department of Mathematics

2019-20

Certificate Course - Student Attendance Register



Sl. No.	Date	No. of Students Present	No. of Students Absentees	Signature of the Lecturer
01	23/01/20	5	2	
02	24/01/20	7	0	
03	25/01/20	4	3	
04	27/01/20	6	1	
05	28/01/20	5	2	
06	29/01/20	5	2	
07	30/01/20	4	3	
08	31/01/20	5	2	
09	01/02/20	4	3	
10	03/02/20	4	3	
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Incharge
Department of Mathematics
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Department of Mathematics

2019-20

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Sl. No.	Date	No. of Students Present	No. of Students Absentees	Signature of the Lecturer
21	04/02/20	4	3	
22	05/02/20	4	3	
23	06/02/20	7	0	
24	07/02/20	7	0	
25	10/02/20	3	4	
26	11/02/20	7	0	
27	12/02/20	7	0	
28	13/02/20	3	4	
29	14/02/20	4	3	
30	15/02/20	7	0	
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2019-20

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Sl. No.	Date	No. of Students Present	No. of Students Absentees	Signature of the Lecturer
21	17/02/20	4	3	<i>[Signature]</i>
22	18/02/20	7	0	<i>[Signature]</i>
23	19/02/20	7	0	<i>[Signature]</i>
24	20/02/20	4	3	<i>[Signature]</i>
25	21/02/20	4	3	<i>[Signature]</i>
26	22/02/20	7	0	<i>[Signature]</i>
27	23/02/20	5	2	<i>[Signature]</i>
28	24/02/20	7	0	<i>[Signature]</i>
29	25/02/20	4	3	<i>[Signature]</i>
30	26/02/20	4	3	<i>[Signature]</i>
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[Signature] Mathematics
SAS GOVERNMENT DEGREE COLLEGE
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SAS Government Degree College Narayanapuram



Department of Physics

(CERTIFICATE COURSE IN Mathematics)

Brief Report on Certificate Course

In the Academic Year 2019-20 certificate course programme on Certificate course in Arithmetic and Reasoning was conducted in the Department of Mathematics, a good number of students were admitted for this certificate course. Through this course students get knowledge about Arithmetic and Reasoning. Assessment was done in the form of Evaluation of Exam.



Head Dept. Of Mathematics

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Principal
PRINCIPAL

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