	Design & Analysis of Algors Hums Introduction
	Locksign & Maleysie of Algors Hims
ner of	Introduction
	Algolothon is named after a Person
spices	author Abu-Ja'fes Mohammed ibn
	Musa al Khowarizmi (c. 825 A.D)
· had	He weste a textbook on metheratics.
tom	the se may not the distribution of the
3.8	pefor is supstion to a section to
l.	An algolothem is a finite set of
(e4 m) 12	instructions that if followed, I
Arrante	accomplishes a particular tass. In
	addition, all algoeothms must satisfy
	the following clifelia.
in description	1. Expet: - Fero of mole quantities are
- Ac	externally supplied
	various des ign strategies ca
	2. Dulput: Atleast one quantity is
	ploduced
Lantsh	19 year to realidate adjournmentities real
100020	5. Définiteners: Each instruction is close
1	() unambiguous ,
hallert.	and a place storeing realedly of pages
	4. Einsteness, If the instructions of an
Thought (algo is braced out, then for all
1 Y	case, the also terminates after
- t	a finete no of steps.
	the stable in this trans
and Arrest	Effectureness: Every instron must be very basic
	so that it can be carried out
	by pen and paper - It must be
	Jeagelple too.

	Carl Depth Carl Depth & was all a
	Note: Alpolithme that are definite and
	effective are also called
1000	computational placedures.
do	Exo: Operating system of a digital computer
	The peocedure is designed to center!
,	execution of jobs, in such a way that
	When no jobs are available, it does not
	terninate but continues in a waiting
1	thate until a new job is entered.
	mediatotics that it selled
- 3	In algolothme, there are four distinct
434	axeas to study man in mension
	is How to devise algoeothis.
ale	Greating an algo is an art which
	may never be fully automated. The
	velledes desegn stegies com be
	used to device algoritane
	133111 C) CA
	2) How to validate algorithms (Algo validation)
in 1	The alfo should compute the accept
	answer got all possebly local survey
	sowing reliable of the mother
	The control of leased photo
A V	The refelled as ploklam proving
0110	COLL COLL SO
	Though a collectness made do have
- 1	SOU STURE IN TOP LOPAGE
20031	i) as a pyro annote led by
. 1	There explessed in producate calculus.
1 12	Habout the elp & ofp var of the pegm)
	y said states of the said states
1	

	Date: / / Pg:
	-uz) The second form is called a
	specification & it may also he
	expressed in the predicate calcules
	ALBORITHM RUCKLE (20,20)2
elitho	3) How to analyze algorithms-
8 × 83 2	This field of shedy is called
7	analysis of alfolethms. As an algo
4 pra	is executed, it were systems up
	to perfolm operation of its memore
	Choth immedeated & auxiliary) to hold
	the page of delta.
	Analysis of algolithms of performance
· ·	analysis defers to the task of
	determine kow much computing
	tene & storage an also requires.
	Lorsein The voltages excusive a possible
	(e) How to test a peogram -
	It consists of a phases:
	debugging & plotiling.
	Debugging is the places of vexecuting
ATTO	plograms on sample dater lets to
1	determine if facility results occur g if so
	to collect them.
	: Step d: Dersusse the various of + by 1 Gold
	Profiling or performence measurement
	is the peoces of executing a correct
	peogram on data sets and measuring
	the time and space it takes to compute
	the result.
	ing a lived the prival problem of
in th	ichar identify allthe comer fection
State 1	