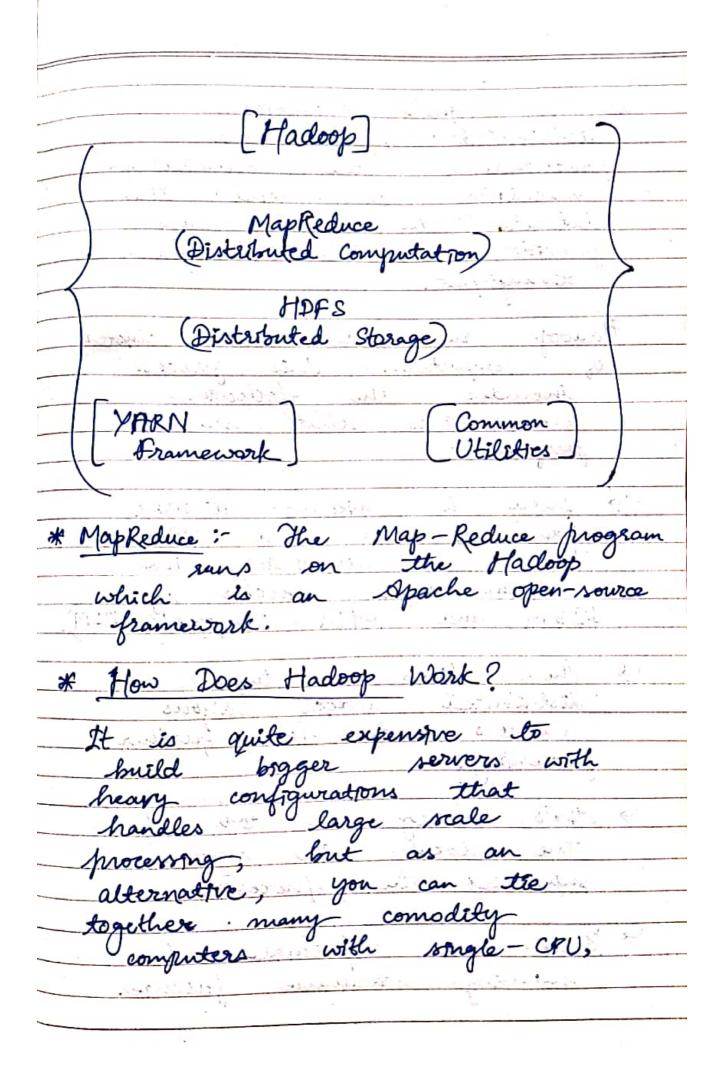
Nome- Vicky kumar
Sub cloud computing
Roll. no 18ERECS080
(Midterm)
Sec-C
Ans D. Hadoop is an Apache open
source framework written
in java that allows distrabuted
processing of large datasets
across clusters of computers
using simple programming models.
71
Hadoop framework works in an
environment that provides
distributed storage and
computation across clusters of
computers.
76
* Hadoop Archetecture =
11.4
At its core, Hadoop has two
At its core, Hadoop has two major layers namely -
Frocessing/Computation layer
(Map Reduce), and
> Storage layer (Hadoop Distributed
File System). Computation layer (Map Reduce), and Storage layer (Hadoop Distributed



as a single functional distributed system and practically, the clustering machines can read the datasets in parallel and provides a much higher throughput. Hadoop sun code across clusters of computers. This process includes the followingcore tasks that hadoop Data is intrally divided into directories and files. Files are directories into uniform sized blocks of 128M and 64M (preferable 128M) Cy These files are then distributed across various clusters nodes for further occurring. GHDFS, being on top of the local fall system, supervised the processing. Blocks are replicated for handling hardware failure.

6 Checking that the code was executed successfully
executed successfully
party ,
G Performing the sort that takes place between the map and reduce stages.
to her blace between the
seek and seduce states.
way and show the same
* Advantages of Hadoop:
(Hadad leaves mak allows the
4 Hadoop framework allows the
user to quickly write and test distributed systems.
अवस्थित । जिल्ला स्टूडिंग व्याप्ताना । जनसम्बद्धाः जनसम्बद्धाः व्याप्ताना ।
(Hadren does not relevion
G Hadoop does not religion hardware to provide fault
beleg and broke availability
tolerance and high availability (FTHA), rather than Hadoop Ubrary itself has
Hoday Whrarm idself has
been designed to detect and
handled failure and application.
handled failure and application.
G Server can be added on
served from the clusters
dynamically and Hadoop continues to operate without intersuption.
agranically without intersuption.
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Ans. @ 3 Virtualization is the
10 Creation
rather than actual version
Tapery for

	of something, such as operating system (OS), a server, a storage device or network resources.
	operating system (05), a
	server, a storage device or
	network resources.
	All the state of t
	Virtualization uses software that
	Symulates hardware functionality
	in order to create a
	vietual system. This practice
	allows It organization to operating
	operate multiple operating
- /	systems, more than one
	Virtual system and varyous
_	applications on a single
	server.
-	* How does Virtualization works ~
	* How does Virtualization works
-	1 Police 100 100 100 100 100 100 100 100 100 10
	Vistualization describes a technolog
_	
	is abstracted away from
	the true enderlaying hardware
	and the second s
	A ten use of realistics
	technology
-	technology is server
_	virtualifaction, which uses a
-	software layer called a
	Typervisor.

A Hypervisor is a farm of virilualization
netualization
MINIMOLE MACIA US COURT
hostpray to divide and
hostpag to divide and allocate the resources on
various piece of hardware.
Type 1 hypervisor offers much
better performance than Type?
once because there's no
middle layer making them
the logical choice for
mission - critical applications
the logical choice for mission - critical applications and workloads.
* Inderstanding your needs: The company and its applications are the ras reason for data centre (and your job) Besides your company's needs,
company and its applications
are the sas reason for
data centre (and your job)
Besides your company's needs,
you (and your co-workers in IT)
also have your own needs.
रिकार १५७ मध्ये किया १५० १५० १५० १५० १५० १५० १५० १५० १५० १५०
* Needs of Hypernson
- John Maria Maria John
4 flexibility
G Scalabilly.
4 Usability I described at the horizon
and svallability desired on with intercond
(Realiability granismo
is Efforency
> Realiability supports
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	(Sec-B)	
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Ans (1)	Difference between	IAAS & PAAS.
10	The same of the sa	to the same
- basie o	TAAS	PAAS
Chanda I.	T 1-31-35	b0 01
Stands for	Infrastructure à a service.	a service.
v s	a service.	a service.
Uses	IAAS to used	Page
26.		PAAS is used
	architects.	by developer.
	1091	100
Access	IAAS give access	PAAS give access
	to the resource	to run fre
	like virtual	equironment to
	machines and	deployment and
- 1931 min 2	virtual storage.	development tools
1 2 m	192,02,53	for application.
Model	the source	#
ATT .	It is service model that provides	It is a cloud
	virualized computing	model that
	rejources over	delivers tools
	Internet.	that is used
	to	or development of
		application
		- militar wit.
Technical	It is required	In which your
Understanding	as technical	required knowledge
	understanding	
A. C	or knowledge.	of subject to
	Sparie-	setup
		V .

Community clouds are a secent variation on the private cloud model that provide a complete cloud solution for specific business communities. Community clouds are an attractive option for companies in the health, financial or legal spheres that are subjects to strict regulatory compliance. compliance. was the The recent development of how cloud compruling is evolving.
CSPs can comprise different type of clouds with different service models to provide buspnesses with attractive cloud solutions that meet a company's needs as some modernments destar extend applications Public Cloud - In public cloud, indredual busness share on prientse and access to basic computer infrastructure (servers, Horage, networks, a development

platforms etc) presided la
platforms etc) provided by a company
wheres the CSP4 introde A
with other companies that
have substcribed to the
Cloud -
Payment is usually pay-as- you-go with no minimum time requirements:
you-go with no service
time requirements
and the second of the second o
Public clouds are highly cost effective because the buspiess
effective because the
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here It staff to rustage
and maintain st
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Ansis. A data centre in
physical facility that
organisations use to P
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and data
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A data centres design is
based on a motions
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storage resources that
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The	delverery of shared recotion and data.
app	Utcation and data.
* The	key components of
da	ta centre design include
Se	enters, mitches, frewalls,
sto	rage systems, servers and
an	plication - delivery controllers.
N. Carlos	
* 109h	do dolo contora triballand
	to 1
1 2 2 1 1	as business ?
60	y are data centers important to business?
9 Ema	ils and file Sharing
5 Prod	uctivity applications.
4 Cust	data, artificial intelligence, d Machine learning.
4 Bog	data, artificial intelligence,
an	d Machine learnine
	SINGUE STATES
* Core	Components of data centre:
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How Sterage & Compa * How Netwood Apple	do data centre operate? ark securitres appliances: ration delievey assirance.

Ans 6 A service level aggresment
(SLA) is documented
aggrement between a
service provider and a
customer that identifies booth
the services required and the expected level of service.
the expected level of service.
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The aggreenent varies between
The aggreenent varies between vendors, services and industries.
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* Writing SLAs: an SLA templates:
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Requirements for Saas serve
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S Aggreenent service targets
criteria for target fulfillment
evalvation
4 Roles and Responsibility of
Service Proppler.
Duration, Scope and Renewal
of this SLA contract
U Zaran

