Assignment. Date_/_/_ Module-5 saathi) I. Explain now Automation Impacts Network mangement. How Network Automation Impalts petwork management with Network Automation, Verious network management activities avre done such as netwoodk management testing, deployment, configuration and Verious network operication Deterout Automation, Complex network duties pour example configurations Can be done automotically. As you Know network engineers likes Configurations. -) But Four a lawige netwoods, Bouters Switch configuorations can be difficult. To very earne their issue Deteroork Autometion is used and this makes netwooder engineers vok Pelsier. Benefits Reduced openation costs High up times. Lower Forors Effective Steeff Better Detwoodk Control. Incorecised Business Agility.



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2)	Explain Vivituelization.
-)	Vivitualization is the Coreation of
	a Vioitual-orather then actual - Version
	ot Something, such as an operating
,	System : a Seviveur a stoinage device.
	out network enesounces.
->	Verylandization and a consent that
	Vivitulization uses softenance that Simulates havidance functionality
	to correcte a Vivitual System.
	vicinity of the
->	This polactice allows IT ourganizes
	Eron's to operate multiple operating.
	Systems, movie than one Vicitual
	system and Various applications
	on a signgle servers.
2)	Descoube Characteoristics of REST-
	beised API.
l.	Client- Secree of Auchitecture
2.	Statelessness
3.	Cuchecebility.
	Layeured system
5.	Code on - Demand. Uniform Interrface.
6.	Unitoda Lotteriale,



-	-	STREET, SQUARE, SQUARE					
1	0		lient.	Seowery	Au	chitec	favre.
	- 1	1		,			- 1

- Restful APIs aure built with a Client-Seuveur aurchitetune, meuning that ean the client sends a request to seuveur and the seuveur sends back a response.
- 2. Stutelessnes.

meening that each oreguest made by
the Client to the secree Contains
an the informations necessary four.
The Secree to fulfill the orequest,
without orelying on any porevious.
orequests our secreters side stoorage.

- 3. Cacheability.
- oreduce the load on the Severer. There some some of Cuching.
- This means that the API cresponses

 Can be catched by the client, allowing

 Four Faster response time subsequent

 requests four the Same resource.
- 4. Layerred 845tem.
- -) APIs to be designed as a layeured 84Stern, where the Client interacts with the server through a single



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	endpoint, while the Seviveer Can interest
	coith multiple buckend systems.
5-	Code-on-Demand.
-)	means that the server Can Send
	back Code to be executed by the
	Client instead of data.
0-	Unifourn Interferce
	the second of th
9	meuns that the API USES a
	Common set of methods, Such as
	access resources, and a Steindard
	footment, Such a 1500.00 XML
	for requests and responses.
4)	Explain DDA Center.
-)	DNA (Digited Netwooder Auchitecture)
	DNA (Digital Netwoods Auchitecture): is powerful SDN controller and soanagement dashboard that allows you to take Control of
	allows you to take Control of
	your netwould, Optimize fourt netwould, sectione your semate. Coouth Fource, and lower your
	netobootle secure your semote.
	Coochtonice, and lower your
	.tl -stending.



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-)	It is an appliance that provides
	a Centralized gouphical inférface
	to design your netwould raddand Configure devices, monitory your network and devices, and
	configur devices, monitour your
	inetwood and devices, and
	Execubleshoot Your network:
V. C. C. C.	
5)	Explain SDN.
	CDA1 CI II
	SDN Steinds For Software Defined
	Wetwoodly which is a netwoodk
	approach.
->	
, , , , ,	It enables the Control and manage-
	ment of the netwoods using
	Softenoire applications.
-)	Thorough SDN Netwoodking beverite
	or the entire netwoods and its
	device avre programmed in a
	Centralled manner through
	Centrolled manner through Software applications Using Open.
	APS.
7	Do Undeerstand the Vaccious Planes.
	1 1 1 1 1
	1. Data · Plane.
	2. Control Plane.



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6)						
	Compaire traditional Netwoork with Controller based networking					
2						
	tuaditiona	Controller based				
	Networking.	Detwoorting.				
->	They avre static and inflexible. netwoodle.	nétwoules.				
-)	They aire not useful Four new business Ventures.	They aure-help new business ventures.				
->)	They aure hewedware appliances	J They auc Configured.				
→	They have distributed. Control plane.	-> They have logically (control Plane.				
		- Silicon.				
-)	They wouk using. Protocols.	onfiguere es per				