NPTEL Cloud Computing – Week 2

1. Service-Oriented Architecture (SOA) possesses
A) A service provider, service requestor and service broker
B) A service provider and service requestor
C) A service requestor and service broker
D) Only a service broker
Explanation : SOA is a design pattern based on distinct pieces of software providing application functionality as services to other applications. The key components include a service provider, service requestor, and service broker.
2. XML is designed to describe
A) pricing
B) SLA
C) data
D) service
Explanation : XML (eXtensible Markup Language) is designed to store and transport data. It focuses on what data is and is used to encode documents in a format that is both human-readable and machine-readable.
3. SOAP (Simple Object Access Protocol) does not restrict the endpoint implementation technology choices. SOAP is a platform-neutral choice.
A) True
B) False
Explanation : SOAP is designed to be platform- and language-neutral, allowing different software applications to communicate over a network. It uses XML to encode its HTTP-based messages, ensuring compatibility across different systems.
4. A Cyber Physical Cloud Computing (CPCC) architectural framework is a environment that can rapidly build, modify and provision cyber-physical systems composed of a set of based sensor, processing, control, and data services.
A) system, cloud computing
B) cloud computing, system
C) system, edge computing
D) edge, system computing
Evaluation: Cloud Computing (CDCC) architectural framework on "a system environment that

Explanation: Cloud Computing (CPCC) architectural framework as "a system environment that can rapidly build, modify and provision auto-scale cyber-physical systems, composed of a set of cloud computing-based sensor, processing, control, and data services"

5. Network Virtualization is a		service	
providers to dynamically compose	virtual networks.		
A) networking, single, single			
B) physical, single, multiple			
C) networking, multiple, single			
D) networking, multiple, multiple			
Explanation : Network virtualization involves creating virtual networks that operate independently of the physical network infrastructure, allowing multiple service providers to manage multiple virtual networks.			
6. Customized wearable devices for co	ollecting health parameters are t	he best examples of	
 A) IoHT			
B) Fog device			
C) Fog-Cloud interfaced			
D) Cloud-Fog-Edge-IoHT			
Explanation : Wearable devices, such as Internet of Things (IoT) ecosystem, design		·	
7. Dew Computing is a paradigm wher is of cloud services and is a		-	
A) dependant			
B) independent			
C) partial dependant			
D) none of these			
Explanation : Dew Computing involves loperate independently but still collaborationality.	, ,		
8. SOAP uses as transport p	protocol.		
A) UDDI			
B) SLA			
C) HTTP			
D) XML			
Explanation : SOAP typically uses HTTP	as its transport protocol, making it	easy to pass through	

firewalls and proxies without modification.

9. Virtual Machine Monitor is also known as ______.

- A) Cluster Manager
- B) Virtual Machine Handler
- C) Virtual Machine Manager

D) Hypervisor

Explanation: A Virtual Machine Monitor (VMM), or hypervisor, is software that creates and runs virtual machines. It abstracts the physical hardware to provide virtual hardware to each VM.

10. Which of the following is/are XML parser API(s)?

A) XaaS (Anything as a Model)

B) SAX (Simple API to XML)

- C) CLI (Command Line Interface)
- D) DOM (Document Object Model)

Explanation: SAX (Simple API for XML) is a common API used for parsing XML documents. It is event-driven and provides a mechanism for parsing XML documents in a memory-efficient way.