Faculty of Engineering
End Sem (Even) Examination May-2022
CS5CC11 Cloud Application Development

Programme: M.Tech.   Branch/Specialisation: CS

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 i.   Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users.   **1**
(a) Real   (b) Cloud   (c) Virtual   (d) None of these

ii. Which one of the following is related to the services provided by cloud?   **1**
(a) Sourcing   (b) Ownership (c) Reliability (d) PaaS

iii. Which of the following tag represents a section of the document intended for navigation in HTML5?   **1**
(a) Footer   (b) Nav   (c) Section   (d) Dialog

iv. A free open-source software version of Netscape was the developed called _____.   **1**
(a) Opera Mini   (b) IE
(c) Google Chrome   (d) Mozilla

v.   In the Cloud Data Management Interface (CDMI), the storage space is partitioned into units called _____   **1**
(a) Containers   (b) Workspace
(c) Replicas   (d) None of these

vi. _____where a VM can be moved from one physical machine to another even as it continues to execute.   **1**
(a) Load balancing   (b) Migration
(c) Live migration   (d) None of these

vii. Which of the following is the application of cloud computing?   **1**
(a) Adobe   (b) Paypal
(c) Google G Suite   (d) All of these

viii. ___ allows you to leverage the seemingly infinite compute resources of cloud infrastructure.   **1**
(a) IaaS   (b) SaaS   (c) CaaS   (d) PaaS

P.T.O.

ix. Which of the following factors might offset the cost of offline access in hybrid application?   **1**
(a) Scalability   (b) Costs
(c) Ubiquitous access   (d) All of these

x.   _____ provides the runtime environment for applications, development and deployment tools, etc.   **1**
(a) IaaS   (b) PaaS   (c) SaaS   (d) XaaS

Q.2 i.   What is on-demand functionality? How is it provided in cloud computing?   **2**

ii. Describe the different cloud service models with example.   **8**

OR   iii. Explain four types of cloud deployment models with suitable diagram.   **8**

Q.3 i.   What is the primary function of the web browsers?   **2**

ii. What are the basic components of web browser? Explain in detail.   **8**

OR   iii. Explain building blocks of XML documents with example   **8**

Q.4 i.   What is cloud ecosystem? Give suitable example.   **2**

ii. What is Virtual Machine Migration? Explain with suitable diagram?   **8**

OR   iii. What is cloud data management? Explain any seven benefits of cloud data management.   **8**

Q.5 i.   What do mean by building cloud application from scratch?   **2**

ii. Explain the steps needed to convert legacy apps to the cloud application.   **8**

OR   iii. Explain Cloud Application Deployment strategies.   **8**

Q.6 i.   What is Orchestration?   **2**

ii. How do you improve cloud application performance? Explain in detail.   **8**

OR   iii. What is failure in cloud application? Discuss some techniques to deal with failures that minimize their effect on the service.   **8**

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Scheme of Marking

Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	c) Virtual	1
	ii)	a) Sourcing	1
	iii)	b) nav	1
	iv)	d) Mozilla	1
	v)	a) containers	1
	vi)	c) Live Migration	1
	vii)	d) All of the above	1
	viii)	d) PaaS	1
	ix)	d) All of the mentioned	1
	x)	b) PaaS	1
Q.2	i.	Definition-1mark, Explanation-1mark	2
	ii.	Service models- 6 marks, Example-2 marks	8
OR	iii.	Types of cloud with diagram- 2 marks each	8
Q.3	i.	Definition - 2 marks	2
	ii.	List of components- 2 marks, Explanation- 6 marks	8
OR	iii.	Explanation – 6 marks, examples- 2 marks	8
Q.4	i.	Definition - 1 mark, Example – 1 mark	2
	ii.	Definition -2 marks, explanation with diagram- 6 marks	8
OR	iii.	Definition- 1 marks, explanation of benefits- 7 marks	8
Q.5	i.	Explanation- 2 marks	2
	ii.	Explanation of steps – 8 marks	8
OR	iii.	Explanation -8 marks	8

Q.6			
	i.	Definition - 2 mark	2
	ii.	Explanation- 8 marks	8
OR	iii.	Definition - 2 marks, Techniques -6 marks	8

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