

(Please write your Exam Roll No.)

Exam Roll No .....

**Bharati Vidyapeeth's**  
**Institute of Computer Applications and Management**  
**A-4, Paschim Vihar, New Delhi-63**  
**Model Question Paper-I [Sem-III]**

<b>Paper Code: MCA-223</b>	<b>Subject: Cloud Computing</b>
<b>Time: 3 Hours</b>	<b>Maximum Marks: 75</b>
<b>Note: Attempt FIVE questions in all. Question No. 1 is compulsory and attempt one question from each unit.</b>	

<b>UNIT - I</b>		
1.	Answer all the following questions briefly:-	2.5 x 10 = 25
	(a) Describe Amazon EC2 and its basic features?	
	(b) Give some examples of public cloud?	
	(c) What are the fundamental principles of cloud security design?	
	(d) Which is the most common scenario for a private cloud	
	(e) Give the 5 names of some popular software-as-a-service solutions?	
	(f) What are the major advantages of cloud computing?	
	(g) Discuss the use of hypervisor in cloud computing.	
	(h) What are the innovative characteristics of cloud computing?	
	(i) Which are the technologies on which cloud computing relies?	
	(j) Discuss the objective of cloud information security	
<b>UNIT - I</b>		
2.	(a) Describe the main features of the service orientation.	6.5
	(b) Describe how cloud computing technologies can be applied to support remote ECG monitoring?	6
3.	(a) What are the benefits of virtualization in the context of cloud computing?	6
	(b) What are the different approaches to cloud software requirement engineering?	6.5
<b>UNIT - II</b>		
4.	(a) What is Failover System? Explain its types in details.	6.5
	(b) Discuss the architecture of Hyper-V. Discuss its use in cloud computing	6
5.	(a) Discuss the case study on DTGOV. Explain in detail.	6.5
	(b) Differentiate full and partial virtualization.	6
<b>UNIT - III</b>		
6.	(a) What is PKI (Public Key Infrastructure)? Explain in detail.	6.5
	(b) What is Resource management? What are the tasks that are typically automated and implemented through the resource management system?	6
7.	(a) What is AWS? What types of services does it provide?	5
	(b) <b>Explain Single Sign-On (SSO) in details</b>	6.5
<b>UNIT - IV</b>		
8.	(a) What is Web services? Explain the different types of web services.	6.5

	(b)	Analyze the risks posed by foreign mapping and the solution adopted by Xoar. What is the security risk posed by XenStore?	6
9.	(a)	Search the literature for papers proposing a layered architecture for computing clouds and analyze critically the practicality of each of these approaches.□	5
	(b)	Identify the main security threats for the SaaS cloud delivery model on a public cloud. Discuss the different aspects of these threats on a public cloud vis-à-vis the threats posed to similar services provided by a traditional service-oriented architecture running on a private infrastructure.	6.5