CHITKARA **UNIVERSITY**

Department of Computer Science & Engineering
Chitkara University Institute of Engineering & Technology
(Accredited by NAAC with Grade 'A+')

Ref No: CUIET/CSE/ACAD/2023/185

Dated: 15th May, 2023

NOTICE

Test Type: ST   **Test No**: 03   **Total Marks**: 40   **Duration**: 1 Hr

Name of Course Coordinator: Dr. Shilpi Harnal

Course Code: CS194   **Course Title**: Cloud Computing   **Day**: Friday

Date: 26-05-2023   **Time**: 09:30AM – 03:00PM (in slots)   **Platform**: MyMapit

Mode: OnCampus-Online   **Programme & Semester**: B.Tech. (CSE) & 6th Sem.

Syllabus for Test:

AWS Containers Service: Introduction to containers, Dockers and Kubernetes, how to create, execute, change, and deploy containers. container management etc., Amazon Elastic Container Registry (Amazon ECR), Amazon Elastic Container Service (Amazon ECS), Amazon ECS Anywhere, Amazon Elastic Kubernetes Service (Amazon EKS), Amazon EKS Anywhere, Amazon EKS Distro.

AWS Application Integration and Front-end Web/Mobile applications: Introduction to Elastic Beanstalk, Deploying Scalable Application, Selecting And Launching An Application Environment, Provisioning Application Resources with Cloud Formation, Introduction to Cloud Watch, Describe Cloud Watch metrics and alarms, AWS Messaging Services (SNS, SQS, SES), Elastic Beanstalk, Amazon AppFlow, AppSync, EventBridge (Amazon CloudWatch Events), Amazon MQ, Simple Notification Service (Amazon SNS), Simple Queue Service (Amazon SQS), Step Functions.

Security, Identity, and Compliance: Directory Service, Key Management Service, Securing Data at Rest and In Motion, Compliance Issues, Privacy and Security, Artifact, Audit Manager, Certificate Manager, CloudHSM, Amazon Cognito, Amazon Detective, AWS Directory Service, Firewall Manager, Amazon GuardDuty, Amazon Inspector, Key Management Service, Network Firewall, Resource Access Manager, Secrets Manager, Security Hub, AWS Shield, Single Sign-On, AWS WAF.

AWS Management and Governance: Economic Cost Model and Leveraging the Cloud, Cloud computing resources, Cloud Dos and Don'ts. Business continuity technology solutions, backup and recovery considerations, backup technologies, Understanding legal challenges, liability, copyright, data protection, IPR, data portability, inter-country legal frameworks, Well-Architected Tool, CloudTrail, CloudWatch, AWS Backup, CloudFormation, Command Line Interface, Compute Optimizer, Config, Control Tower, License Manager, Organizations, Personal Health Dashboard, Proton, Service Catalog, Systems Manager, Trusted Advisor, EventBridge, Resource Access Manager etc.

AWS Cost Management: Budgeting, Cost management, resource planning, Budgets, Cost and Usage Report, AWS Cost Explorer, Savings Plans.

Format of Assessment: MCQ Type 40 Questions (30 Questions – 1 mark, 10 Questions – 2 marks)

Remarks, if any: None

Signature of Course Coordinator: