Reg. No. | | | | | | | | |

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.
(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.C.A.

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
IV	PART-III	CORE	U21CA404	CLOUD COMPUTING USING PYTHON

Date & Session: 15.11.2024 / FN **Time : 3 hours** **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which of the following is a transformative computing paradigm that involves delivering applications and services over the internet? a) Soft computing b) Cloud computing c) Grid computing d) Hard computing
CO1	K2	2.	Trace the technique that used to create and maintain multiple copies of the data in the cloud. a) Duplication b) Monitoring c) Evaluation d) Replication
CO2	K1	3.	Label the feature of database service that used to restrict the access to the database instances and stored data. a) Reliability b) Scalability c) Security d) Performance
CO2	K2	4.	Show a distributed system of servers located across multiple geographic locations to serve content to end-users with high availability and high performance. a) CDN b) LAN c) IDN d) PAN
CO3	K1	5.	Name the tier which includes a master db instance and multiple slave instances. a) Load Balancing b) Application c) Database d) Presentation
CO3	K2	6.	Select a layer of SOA that integrates the services through adapters, routing, transformation and messaging mechanisms. a) Presentation Services b) Enterprise Service Bus c) Business Systems d) Service Components
CO4	K1	7.	Relate the variable type that contains a list of characters in order. a) Integer b) String c) Float d) Char
CO4	K2	8.	Indicate the correct syntax for opening a file in Python. a) open(mode,filename) b) fopen(filename) c) open(filename,mode) d) fopen(filename,mode)
CO5	K1	9.	Quote the Windows Azure compute model that allows you to provision on-demand, scalable compute infrastructure a) Azure Virtual Machine b) Azure Storage c) Azure Website d) Azure Service
CO5	K2	10.	Represent a package for scientific computing in Python and provides support for large multi-dimensional arrays and matrices. a) NumPy b) JSON c) Pandas d) XML

Course Outcome	Bloom's K-level	Q. No.	**SECTION – B (5 X 5 = 25 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	11a.	Make use of various Cloud models with neat diagram. **(OR)**
CO1	K3	11b.	Identify the purpose and different forms of approaches in Virtualization.
CO2	K3	12a.	Utilize the features and methods in Storage Services of Cloud. **(OR)**
CO2	K3	12b.	Write about the various Deployment and Management Services of Cloud.
CO3	K4	13a.	Examine the Parts and Functions of MVC design pattern. **(OR)**
CO3	K4	13b.	Compare SQL with No-SQL approaches in Data Storage.
CO4	K4	14a.	Analyze Lists in Python with example. **(OR)**
CO4	K4	14b.	Explain the functions of If…else structure in Python with example?
CO5	K5	15a.	Assess the need of Google Cloud Storage and Google Cloud SQL. **(OR)**
CO5	K5	15b.	Evaluate the various capabilities of Scikit-learn Python package.

Course Outcome	Bloom's K-level	Q. No.	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K3	16a.	Organize the various Characteristics of Cloud Computing. **(OR)**
CO1	K3	16b.	Interpret any four applications of Cloud Computing.
CO2	K4	17a.	Clarify about any two Application Services of Cloud. **(OR)**
CO2	K4	17b.	Analyze any two Open-Source Private Cloud Software with diagram.
CO3	K4	18a.	Inspect the various design considerations for developing cloud applications. **(OR)**
CO3	K4	18b.	Infer the Component design for MapReduce App with diagram and example.
CO4	K5	19a.	Assess the importance of Basic Operators in Python with example. **(OR)**
CO4	K5	19b.	Which Loop is best in Python either for loop or while loop? Justify.
CO5	K5	20a.	Evaluate any four Amazon Web Services offered by Python. **(OR)**
CO5	K5	20b.	Developing a RESTful Web API for Book details is Complex one? Justify.