6E7106

Total No. of Questions : 22 Total No. of Pages : 04

Roll No. : .....

6E7106

B.Tech. VI-Sem. (Main/Back) Exam. 2024

COMPUTER SCIENCE AND ENGINEERING

(Artificial Intelligence)

6CA14-06 Cloud Computing

CS, IT, AID, CAI

Time : 3 Hours Maximum Marks : 70

Instructions to Candidates :

Attempt all ten questions from Part-A, five questions out of seven questions from Part-B and three questions out of five questions from Part-C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used / calculated must be stated clearly.

Use of following supporting material is permitted during examination.

(Mentioned in Form No. 205)

ersahilkagyan.com

1. ..... 2. .....

PART-A **[10×2=20]**

(Answer should be given up to 25 words only)

All questions are compulsory

Q.1. What is Cloud Computing? Mention the objectives as well.

Q.2. Explain the different components of Cloud Computing.

Q.3. Explain the Parallel and Distributed Cloud Paradigm.

Q.4. Explain the Fractures of Cloud Computing.

Q.5. Explain CRM in Cloud.

Q.6. Explain the Hypervisor VMware.

Q.7. What are the fundamental principles of cloud security design?

Q.8. Describe the working of Hadoop.

Q.9. What is AWS? What types of services does it provide?

Q.10. Discuss the cloud federation stack.

PART-B

[5×4=20]

(Analytical/Problem solving questions)

Attempt any five questions

Q.1. Explain in depth about Ubiquitous Cloud and the Internet of Things.

Q.2. Explain the Storage Services of Cloud Platform.

Q.3. What is Business Continuity and Disaster Recovery in Cloud Computing?

Q.4. Explain the different layers and types of Clouds and Service Models.

Q.5. Describe the core components of Google App Engine.

Q.6. Explain the (SLA) with a neat diagram and also state its advantages and disadvantages.

Q.7 What is Data Intensive Computing? List eight open challenges of Data Intensive Computing.

PART-C [3×10=30]

(Descriptive/Analytical/Problem Solving/ questions)

Attempt any three questions

Q.1. With a neat diagram, explain the Cloud Computing Reference Model.

Q.2. Explain the following Deployment Mode Platform for the following Aneka Cloud:

(a) Private Cloud

(b) Public Cloud

(c) Hybrid Cloud

Q.3. What is Virtualization? Explain the implementation level along with the benefits.

Q.4. Design and implement an Application for Log Parsing, Mapper and Reducer with Aneka Map Reduce.

Q.5. Explain the Windows Azure platform architecture.

-----x-----