

(Please write your Exam Roll No.)

Exam Roll No.

END TERM EXAMINATION

FIFTH SEMESTER (BCA) JANUARY-2024

Subject: Cloud Computing

Paper Code: BCA-305

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.no.1 which is compulsory. Select one question from each unit.

[-2-]

UNIT-III

- Q6 a) What is service-oriented computing and market-oriented cloud computing? (6)
b) Discuss RPC and how it enables interprocess communication. (6.5)
- Q7 a) What are the most relevant technologies for distributed objects programming? (6)
b) Describe the different levels of parallelism that can be obtained in a computing system. (6.5)

UNIT-IV

- Q8 a) Discuss the reference model of full virtualization. (4.5)
b) What is hardware Virtualization? Write difference between para and full virtualization. (8)
- Q9 a) What is VMWare? Discuss its elements for virtualization. (6.5)
b) Discuss classification or taxonomy of virtualization at different levels. (6)

Q1 Answer the following questions in brief:- (2.5x10=25)

- a) Which are the different layers that define cloud architecture?
b) What are the characteristics of Cloud Computing?
c) What is the difference between parallel and distributed computing?
d) What are the disadvantages of virtualization?
e) What is the difference between distributed objects and RPC?
f) Describe the different categories of options available in a PaaS market.
g) Classify the various types of clouds. Give an example of the public cloud.
h) What fundamental advantages does cloud technology bring to scientific applications?
i) What is the innovative characteristic of cloud computing?
j) How is cloud development different from traditional software development?

UNIT-I

- Q2 a) What pros and cons of Cloud computing in comparisons of Distributed and Grid computing? (6)
b) What is the major advantage of Cloud Computing. Briefly Summarize the cloud computing Reference Model. (6.5)
- Q3 a) What are Web desktops? What is their relationship to cloud computing? (6.5)
b) What is the major revolution introduced by Web 2.0? Give some examples of Web 2.0 applications (6)

UNIT-II

- Q4 a) Explain the Cloud Service Model (6)
b) Describe the fundamental features of the economic and business model behind cloud computing. (6.5)
- Q5 a) Suppose a company A decides to set up a cloud to deliver Software as a Service to its clients through a remote location. Answer the following:
i) What are the security risks for which a customer needs to be careful about?
ii) What kind of infrastructural set up will be required to set up a cloud?
iii) What sort of billing model will such customers have? (6)
b) Which are the basic components of an IaaS-based solution for cloud computing? (6.5)

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