

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

15CS565

Fifth Semester B.E. Degree Examination, June/July 2018 Cloud Computing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Define cloud computing? Explain its characteristics and benefits. (05 Marks)
b. Discuss the machine reference model of execution virtualization. (06 Marks)
c. List and explain pros and cons of virtualization. (05 Marks)

OR

- 2 a. With the help of neat diagram, explain the cloud computing reference model. (05 Marks)
b. List and explain the various cloud computing platforms and techniques. (06 Marks)
c. Explain the characteristics of virtualized environments. (05 Marks)

Module-2

- 3 a. What is IaaS? Explain its reference implementation with a neat diagram. (08 Marks)
b. Write a note on: i) Community cloud ii) Foundation services in Aneka. (08 Marks)

OR

- 4 a. With a neat diagram, explain the PaaS reference model. (08 Marks)
b. With a neat diagram, explain the Aneka framework overview. (08 Marks)

Module-3

- 5 a. Define Thread? Explain the relation between process and thread with relevant diagram. (05 Marks)
b. List out the difference between Aneka thread Vs common thread. Explain any two of them in detail. (06 Marks)
c. Explain parameter sweep application with example. (05 Marks)

OR

- 6 a. List and explain 2 types of threads API's provided for thread programming. (05 Marks)
b. Explain Aneka thread application model with simple application. (06 Marks)
c. Describe MPI programs structure with a neat diagram. (05 Marks)

Module-4

- 7 a. What is data intensive computing? Describe the open challenges in data intensive computing. (05 Marks)
b. Discuss the features of Google File System and Amazon Simple Storage Service (S3) (05 Marks)
c. Explain MapReduce scheduling service of Aneka with a neat diagram. (06 Marks)

OR

- 8 a. What does the term NOSQL mean? Explain Google Bigtable with its architecture. (05 Marks)
b. Explain MapReduce Execution Service of Aneka with diagram. (06 Marks)
c. Explain Google Map programming model. (05 Marks)

Module-5

- 9 a. Explain the various compute service provided by Amazon, web service. (05 Marks)
b. With a neat diagram, explain the Google AppEngine platform architecture. (06 Marks)
c. Describe how cloud computing technology can be applied to support ECG monitoring. (05 Marks)

OR

- 10 a. Explain the concept of S3 provided by Amazon web services. (05 Marks)
b. Explain Microsoft windows Azure Platform architecture with diagram. (06 Marks)
c. Describe an application of cloud technologies for online gaming. (05 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written e.g. 42+8 = 50, will be treated as malpractice.