

FACULTY OF COMPUTER SCIENCE & ENGINEERING

BE(CSE) Examination - DEC – 2014

Elective-I Cloud Computing (Revised)

[Time: THREE Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

N.B

i) Question no.1 and 6 are compulsory.

ii) Attempt any two questions from the remaining in each section.

SECTION- A

- Q1 Solve any two questions
- i) Explain development models of cloud computing. (05)
 - ii) Explain monitoring as- a –service in detail. (05)
 - iii) Write short note an service oriented architecture. (05)
- Q2
- a) What is storage-as-a- service? Explain benefits of storage cloud over traditional storage. (08)
 - b) Define web service; also differentiate between SOAP and REST. (07)
- Q3
- a) Explain infrastructure- as – a service in detail. Also mention benefits and drawbacks of Iaas. (08)
 - b) Write in detail cloud computing reference architecture by IBM. (07)
- Q4
- a) Define virtualizations. Explain applications of virtualizations in enterprises. (08)
 - b) Define cloud computing. Enlist key characteristics of cloud computing. (07)
- Q5
- a) What is platform-as-a –service? Write in detail about Google app engine. (08)
 - b) Explain server virtualization in detail. (07)

SECTION-B

- Q6 Explain the following terms in detail (any two) (10)
- i) key privacy concerns in cloud computing
 - ii) H Base project in Hadoop.
 - iii) Life cycle of data.
- Q7
- a) What is Hadoop? Explain master-slave architecture of Hadoop in detail. (08)
 - b) Explain in detail infrastructure security at network level. (07)
- Q8
- a) What is mobile cloud computing? Explain different types of mobile devices used to access cloud services. (08)
 - b) Explain mobile interoperability implementation to access various mobile web services in cloud. (07)
- Q9
- a) What is map reduce model? Explain various phases of map reduce model with suitable example. (08)
 - b) Enlist various security challenges in cloud computing. (07)
- Q10
- a) Explain GFS file system in detail. (08)
 - b) What is WAP? Explain WAP protocol state in detail. (07)