

**M.Sc. Computer Science - 2nd Semester
(2721)**

Paper : MCS-204 Cloud Computing

Time allowed: 2 hrs.

Max. Marks: 100

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

Section-A

- Q1. Describe the following concepts for Cloud:
- a) Types of Virtualization
 - b) Limitations of virtualization
- Q2. a) What are different open challenges to Cloud computing? Explain.
b) Explain the virtual appliances.

Section-B

- Q3. a) How is Quality of Service implemented in cloud? Explain.
b) Discuss the concept of Cloud entities in cloud.
- Q4. Discuss the following concepts:
- a) Cloud client
 - b) Architecture of Cloud computing

Section-C

- Q5. a) Differentiate Thread and task programming.
b) Discuss the concept of map reduce programming.
- Q6. Explain the following:
- a) Data Security in cloud.
 - b) Privacy Management in cloud

Section-D

- Q7. Discuss the following:
- a) Role of Big data analytics
 - b) Energy efficiency in cloud
- Q8. Write short notes on following:
- a) Market oriented cloud computing
 - b) Federated Cloud computing
