Roll No. ....

Total Pages: 03

## MCA/D-18

10144

## CLOUD COMPUTING MCA14-55(V)

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt *Five* questions in all. Q. No. 1 is compulsory.

Attempt *four* more questions selecting *one* question from each Unit.

- 1. Answer the following questions in brief:  $4\times4=16$ 
  - (a) Explain different precursors to cloud computing.
  - (b) Explain content delivery services in brief.
  - (c) Explain the following in Python with suitable examples: 'range', 'pass', 'in' and 'is'.
  - (d) Explain recursion in Python with an example.

## Unit I

- 2. (a) Define cloud computing. Explain main characteristics of cloud computer.
  - (b) What is Virtualization? Explain benefits and limitations of virtualization.

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3.	(a)	Explain any two virtualization technologies in detail.
		8
	(b)	Explain the following virtualization: 8
		(i) Operating system (ii) Platform.
Unit II		
4.	(a)	What is queuing service? Explain any two queuing
		services. 8
	(b)	What is deployment and management service ?
		Explain any one such service in detail.
5.	(a)	What is e-mail service ? Explain any one e-mail
		service. 8
	(b)	What is Multimedia Cloud Computing (MCC) ?
		Explain different types of streaming protocols used
		in MCC.
Unit III		
6.	(a)	What is List in Python? Explain any three methods
		associated with list by giving examples. 8
	(b)	What is Dictionary in Python? Explain any three
	` '	methods associated with Dictionary with examples.

8

- 7. (a) How can you read and write files in Python?

  Explain with an example.
  - (b) How can you create class and objects in Python? Explain with an example. 8

## Unit IV

- 8. (a) What is lambda function in Python? Explain its use by giving two different examples.
  - (b) Distinguish between iterators and generator in Python. Give one example of each.
- 9. Write short notes on the following packages: 8,8
  - (a) Django (b) Numpy.