

SEMESTER EXAMINATION-2021	
CLASS – MCA-III SEM... SUBJECT - COMPUTER SCIENCE	
MCA-C303 Cloud Computing	
Time: 3 hour	Max. Marks: 70 Min. Pass: 40%
Note: Question Paper is divided into two sections: A and B . Attempt both the sections as per given instructions.	
SECTION-A (SHORT ANSWER TYPE QUESTIONS)	
Instructions: Answer any five questions in about 150 words each. Each question carries six marks.	(5 X 6 = 30 Marks)
Question-1: Explain cloud computing reference model with a neat diagram?	
Question-2: What are open challenges in cloud computing?	
Question-3: How does cloud computing provide on-demand functionality?	
Question-4: Discuss the features of Google File System and Amazon Simple Storage Service (S3).	
Question-5: Explain IaaS reference with a diagram?	
Question-6: Explain Pro's and Con's of virtualization?	
Question-7: Explain two types of Hypervisor?	
Question-8: Analyze any 2 services and Aneka container?	
Question-9: What are the open challenges of cloud computing?	
Question-10: What is the difference between elasticity and scalability in cloud computing?	
SECTION-B (LONG ANSWER TYPE QUESTIONS)	
Instructions: Answer any FOUR questions in detail. Each question carries 10 marks.	(4 X 10 = 40 Marks)
Question-11: How Does Fog Computing Work? Define application of Fog Computing and benefits of Fog Computing. Explain some of the Major Issues with Fog Computing.	
Question-12: a) Why do you need the Virtualization platform to implement cloud? b) What are the benefits of community cloud?	
Question-13: Differentiate between Cluster computing and Grid computing?	
Question-14: a) Describe the security aspects that the cloud offers? b) What are the main advantages of using Google cloud platform?	
Question-15: In how many classes cloud services can be categorized? Briefly explain each one of them.	
Question-16: Draw and explain Amazon cloud computing infrastructure?	

Question-17: Discuss the following:

- a) Role of Big data analytics
- b) Energy efficiency in cloud

Question-18: Describe the Map-Reduce programming model?