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	Reg. No.:
	Question Paper Code: 21059
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.
	Fifth/Seventh Semester
	Aeronautical Engineering
	OIT 552 – CLOUD COMPUTING
	Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Geoinformatics Engineering/Industrial Engineering/Industrial Engineering and Management/Instrumentation and Control gineering/Manufacturing Engineering/Marine Engineering/Material Science and Engineering/Mechanical Engineering/Mechanical Engineering (sandwich)/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Food Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology) (Regulations 2017)
This	ne: Three hours Maximum: 100 marks
1111	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1.	Draw the convergence of various technologies that lead to the growth of cloud computing.
2.	Lit few public cloud applicable for use.
3.	Define load balancing.
4.	What is para-virtualization? Given example.
5.	State the use of Hybrid cloud with an example.
	Identify different cloud storage services available in real time.
6.	Show the stack of six layers of cloud services.
6. 7.	Dilow the stack of the layers of though services.
	Differentiate between DoS and DDoS.
7.	And an entrance of the contract of the contrac

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PART B — $(5 \times 13 = 65 \text{ marks})$ Explain the desired features of cloud computing. (6)(i) Write down the pros and cons of cloud computing. Discuss the challenges and risks involved in cloud computing. Describe about different types of virtualization. (a) Explain the seven layers of virtualization with a neat sketch. (b) Illustrate different cloud service models with a neat diagram. 13. (a) What are the different architectural design challenges in the cloud (b) environment? Explain them. Write short notes on Resource provisioning and Platform deployment in 14. (a) cloud. Explain data protection techniques in cloud environment. Draw the architecture of GAE and explain it. 15. (a) Or Describe about, (i) open stack (ii) open Nebula (b) PART C — $(1 \times 15 = 15 \text{ marks})$ Consider two cloud service systems: Google File System and Amazon S3. 16. (a) Compare their design goals to secure data integrity and to maintain data consistency during failures. Or Assume the process of creating a data center with physical and cyber security protection. Elaborate the concepts to be taken in detail. 2 21059