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Code No: 5658AY JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech II Semester Examinations, July/August – 2021 INTERNET OF THINGS

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	Define Internet of Things (IoT) and explain the characteristics of IoT. Describe about various IoT levels and Templates.	[8+7]
2.a) b)	What are the applications of Embedded and IoT systems? Discuss. Differentiate between Software Defined Networks (SDN) and Network Virtualization (NFV) for IoT.	Function [7+8]
3.a) b)	How to work with functions in Python programming? Give examples. Discuss about open source hardware and its relevance to IoT. Explain the basics of IoT management with:	[8+7]
	a) NETCOZF b) YANG-NETCONF c) SNMP NETOPEER	[5+5+5]
5.a) (b)	What are the protocols used in Internet of Things? Discuss. How to integrate I/O devices with Raspberry Pi 3? Explain.	[8+7]
6.a) b)	What are the cloud computing platforms used for IoT development? Explain. Explain IoT reference model with a neat sketch.	[7+8]
7.a) b) 8.a) b)	How the exception handling is done in Python? Explain. What are the Web servers and Clouds used for IoT? Discuss. Discuss about issues in designing a RESTful web API. Write a detailed note on Python packages.	[8+7] [7+8]