

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: OE-EE 701 B Internet of Things

Time Allotted: 3 Hours

Full Marks:70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)	
Answer arry ten of the following:	[1 x 10 = 10]
API stands for	,
loT stands for	
NFV means	
For strings, operator performs concatenation	
M Raspberry Pl operates	
NoT devices are associated with data through which methods?	
(VII) UDP stands for	
(VIII) NVF infrastucture includes compute and storage resources that are virtualized	
Which function print the output to the console?	
RISC OS is used as	
Body of IOT system is created bysoftware supporting integration and binds	all system devices
The unique Identifiers for the things of IoT are the	
Group-B (Short Answer Type Question)	
Answer any three of the following	$[5 \times 3 = 15]$
2 Define M2M networking	(5)
3. Write a python program to find the value of 5^2.5	[5]
4- What is Request Response?	[5]
Write a python program to segregate real and imaginary part of a complex number 5+7j.	[5]
6 Explain REST based Communication APIs	(5)
Z	[5]
Group-C (Long Answer Type Question)	
Answer any three of the following	$\{15 \times 3 = 45\}$
7. (a) What is the need for IOT systems management?	[7]
(b) Discuss NETCONF protocol layers	[6]
(c) What is YANG	[2]
By (a) Why python is called multi paradigm programming language?	[6]
(b) Discuss Tupples in python	[5]
(c) Discuss a while loop in python.	
9. (a) Write the steps of device management with NETCONF YANG	[4]
(b) Which limitations make SNMP unsuitable for IOT SYSTEMS	[6]
(c) What is NEETOPEER	[6]
(a) Write a program to find area of a triangle.	[3]
(b) Write a program to read three numbers in three variables and swap 1st to variables with sums o second and second and third numbers respectively.	[4] f1st and [7]
for Describe lists in python	141
1). (a) Determine the IOT for designing structural Health monitoring System.	[4]
Why do IOT systems have to be self adapting and self configuring	[9]
	[6]