18U1	168 (Pages: 2)	Name:
		Reg. No
	FIRST SEMESTER B.Voc. DEGREE EXAMINATI	ON, NOVEMBER 2018
	(CUCBCSS-UG)	
	CC18U SDC1 PP02 – PYTHON PROGRAMMING, I INTRODUCTION TO IOT	BASIC ELECTRONICS,
	(Core Course)	
	(Information Technology)	
	(2018 Admission Regular)	
Time:	: Three Hours	Maximum: 80 Marks
	PART A	
	Answer <i>all</i> questions. Each question carri	ies 1 mark.
1.		
1.	The p side of the diode is diways positive terminar for re-	Tward olds and is termed the
2.	In Boolean algebra A+ AB =	
3.	The symbols used in an assembly language are	
4.	is a connectionless protocol.	
5.	The process of calling the function itself is called	
6.	The access method used for magnetic tape is	_
7.	The registers are located inside the	
8.	In Python, modules can be imported using the	keyword.
9.	A function written inside a class is called	
10.	. Themodule in Python contains several func	tions which are useful to perform
	various mathematical calculations.	
		$(10 \times 1 = 10 \text{ Marks})$
	PART B	
	Answer any ten questions. Each question ca	rries 2 marks.
11.	. Differentiate classes and objects in Python.	
12.	. Define Self Parameters.	
13.	. Define DC load line.	
14.	. Define M2M.	
15.	. Define flowchart.	

16. Define the applications of IoT in home automation.

- 17. Define Publish-Subscribe model.
- 18. What is half adder?
- 19. Describe the two categories of system software.
- 20. Define principle of duality.
- 21. List the symbols used for flowchart.
- 22. What is NOR gate?

 $(10 \times 2 = 20 \text{ Marks})$

PART C

Answer any *five* questions. Each question carries 6 marks.

- 23. What is RAM? Explain different types of RAM.
- 24. With the help of a neat diagram, explain the functional units of a computer.
- 25. Define IoT. What are the different characteristics of IoT?
- 26. Define Lists in Python. What are the different operations performed on lists?
- 27. Explain Opening and closing of files in Python with example.
- 28. Define a microprogrammed control unit.
- 29. Find the decimal equivalent of following numbers:
 - a) 111.01₂
- b) 1001.011₂
- c) 247.65₈
- d) 2B.D4₁₆
- 30. Compare conventional network architecture and Software-Defined Neworking (SDN).

 $(5 \times 6 = 30 \text{ Marks})$

PART D

Answer any *two* questions. Each question carries 10 marks.

- 31. What is an operating system? Describe in detail the main functions of operating system?
- 32. Explain different operators in Python.
- 33. Define string. Explain Operations on string.
- 34. (a) Explain with neat diagram the functional blocks of IoT.
 - (b) Explain IoT communication Models.

 $(2 \times 10 = 20 \text{ Marks})$
