LIST OF EXPERIMENTS

Experiment No.	Part – A : List of Experiments Performed for Cloud Computing
1	To implement program on SaaS to Create an word document of your class time table and store locally and on cloud with doc and pdf format
2	To implement program on SaaS to Create a spread sheet to generate a mark sheet for student progress report.
3	To implement web services by create your BlogSpot and Collaborating via Wikis
4	To implement on PaaS to Install Google App Engine, create a program to validate user; create a database login(username, password)in mysql and deploy to cloud
5	Install Virtual box / VMware Workstation with different flavours of linux or windows OS on top of windows7 or 8.
6	Install OpenStack and use it as Infrastructure as a Service and use technology own Cloud.
7	Case Study on any one Open source and commercial Cloud-Microsoft Azure , Eucalyptus , Amazon EC2

Experiment No.	Part – B : List of Experiments Performed for IoT
8	To implement LED Blink and LED Pattern With Arduino
9	To implement LED Pattern with Push Button Control With Arduino
10	To display “Hello World “ in LCD 16X2 Display With Arduino
11	To implement the Servo Motor Control with Arduino
12	To implement and monitor the LM35 Temperature Sensor and Ultrasonic Distance Measurement With Arduino
13	To implement the IR Sensor Analog Input With Arduino
14	Using ThinkSpeak Cloud Reading Temperature Sensor Monitoring with NodeMCU /Raspberry Pi

BOARD EXAMINATION

Note:
Students should write one program from **PART A** and one program from **PART B.**

DETAILED ALLOCATION OF MARKS

SCHEME OF VALUATION		
1.	Any one program from PART - A	20 Marks
2.	Execution (Part A)	20 Marks
3.	Result with Print out (Part A)	5 Marks
4.	Any one program from PART - B	25 Marks
5.	Execution (Part B)	20 Marks
6.	Result (Part B)	5 Marks
7.	Viva voce	5 Marks
TOTAL		**100 Marks**

LIST OF EQUIPMENTS

Software Requirement:

1. Arduino SDK

Components Requirement:

1. Arduino kit - 10 Numbers
2. Node MCU / Raspberry Pi - 10 Numbers
3. LED Blub – 10 Numbers
4. 330K Resistor - 10 Numbers
5. Push Button - 10 Number
6. Servo Motor 5 V DC - 10 Numbers
7. 5V DC Relay - 10 Numbers
8. Mini Bread Board - 10 Numbers
9. 16x2 LCD Display - 10 Numbers
10. IR Sensor - 10 Numbers
11. LM35 Temperature Sensor- 10 Numbers
12. Connecting Wires