



BMSCOLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous Institute, Affiliated to VTU)
Department Name: Computer Science and Engineering

SECOND INTERNALS

Course Code: 20CS5PCIOT	Course Title: Internet Of Things
Semester: 5 th (A,B,C)	Max Marks: 40
Faculty Handling the Course	DATE: 02/12/2020
Dr.K.Panimozhi	

Instructions: Internal choice is provided in Part C.

PART-A

Total 5 Marks (No choice)*

No.	Question	Marks
1	Describe the need of IoT specific protocol and mention the IoT protocol in each Application layer in the protocol stack	05

PART-B

Total 15 Marks (No Choice, each question should be maximum of 5 marks)*

No.	Question	Marks
2a.	Justify the statement “Data in motion to Data at rest” with respect to IoT Reference architecture.	05
2b.	Identify and justify the protocol used by “Facebook Messenger, Amazon Web Services”.	05
2c.	Justify and criticize the statement “It is necessary to run IPv6 instead of IPv4 on the network to use 6LoWPAN ”	05

PART- C

Total 20 marks (Choice is between (3a or 3b) and (4a or 4b))

No.	Quest	Marks
3a.	Write the Program to control the LED in the Master device by client device through push button using Bluetooth communication	10
OR		
3b.	Design an access control system to admit the employees into the company.	10
4a	Write and explain the commands to configure two ESP8266 modules as access point and station respectively. Use this Configuration to switch on the buzzer from the commands received from the station	10
OR		
4b.	Design and implement Fire alert system using appropriate hardware components, system should make a call and SMS as alert to the user.	10