BMSCOLLEGEOF ENGINEERING,BANGALORE-19

(Autonomous Institute,AffiliatedtoVTU)

Department Name: Computer Science and Engineering

SECOND INTERNALS

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

Instructions: ***Internal choice is provided i n Part C.***

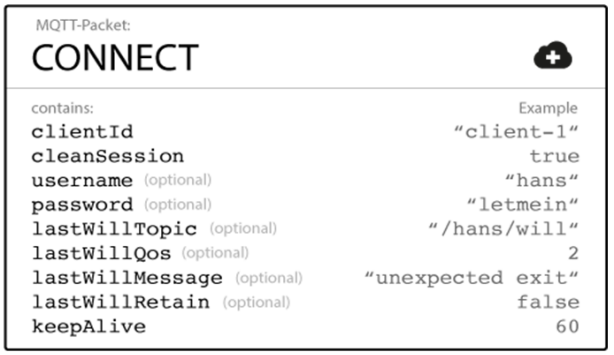
PART-A

Total 5 Marks (No choice)*

No.	Question	Marks
1	Explain the functionalities of Layer 4 of IoT Reference architecture.	05

PART-B

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

No.	Question	Marks
2a.	Analyse the need for header compression in 6LoWPAN.	05
2b.	Analyse the given packet structure and explain in detail 	05
2c.	Justify how reliability is achieved in CoAP.	05

PART- C

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

No.	Quest	Marks
3a.	Assume that a room has 2 bulbs and 2 ACs. Design and implement a system to automatically control this room using Bluetooth technology.	10
	OR	
3b.	Design a smart home using RFID	10
4a	Design a smart package handling system using WiFi and use any cloud services to store and analyze the data.	10
	OR	
4b.	Design and implement burglar /theft alert system using appropriate hardware components, system should make a call and SMS as alert to the user.	10