IOT sycs 11/4 Bearno.

DURATION: - 2½ hrs 8440624		MARKS:- 75	
Note: -	(1) All questions are compulsory. (2) Figures to the right indicate full marks		
	(3) Answer to each question must being on a new page		
Q.1)	Attempt any 4 out of 6		20M
a)	Define IOT and Characteristics of IOT	COI-R	
b)	Explain architecture of M2M.	CO1-A	
c)	Write a short note on NFC and RFID.	COI-R	
d)	List and Explain types of IOT Communication Models.	CO1-U	
e)	Write difference between IOT and M2M.	CO1-R	
f)	Write a short note on Lightweight M2m	COI-R	
Q.2)	Attempt any 4 out of 6		20M
a)	Compare SPI and I2C.	CO2-U	
b)	Write a short note on UPnP.	CO2-R	
c)	Which sensor is used for detection of gas and explain its	CO2-R	
	working?		
d)	What is the role of actuator in IOT?	CO2-A	
e)	List features of MQTT.	CO2-U	
f)	Write a short note on Sensor Technology.	CO2-R	
Q.3)	Attempt any 4 out of 6		20M
a)	Define IOT levels.	CO3-U	
b)	Write a short note on node RED.	CO3-R	
c)	Describe Cloud for IOT.	CO3-A	
d)	List and Explain different types of WSNs.	CO3-A	
e)	What are the Benefits of Edge Computing.	CO3- <u>U</u>	
f)	Write a short note on Fog Computing.	CO3-R	
Q.4)	Attempt any 5 out of 6		15M
a)	Compare APU and GPU.	CO1-U	
b)	Write a short note on IOT protocols.	CO1-R	
c)	Write a short note on Analog and digital sensors.	CO1-R	
d)	Explain UART and I2C.	CO2-A	91
e)	Explain 5G and Edge Computing.	CO3-R	
f) :	Write a short note on Cloud Computing.	CO3-R	