



GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022

B. Tech Degree Examinations, June - 2021

(Sixth Semester)

BELOE6050/ BEEOE6050 - INTERNET OF THINGS

Time: 2 hrs Maximum: 50 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

Answer AII questions			
Allswei ALL questions		[CO#]	[PO#]
		CO-1	PO-1
(i) Push – Pull	(ii) Publish – Subscribe		
(iii) Request – Response	(iv) Exclusive Pair		
b: Each request from client to server must contain all the information necessary to understand the request.		CO-1	PO-1
(i) Cache-able	(ii) Stateless		
(iii) Client – Server	(iv) Layered System		
9,0	_	CO-2	PO-1
(i) NFV	(ii) SDN		
(iii) Both (a) and (b)	(iv) None		
Say True or False:		CO-2	PO-1
-			
(i) True	(ii) False		
is a representation of the physi	cal entity in the digital world.	CO-3	PO-1
(i) Device	(ii) Resource		
(iii) Virtual Entity	(iv) Service		
f is a mapping datatype or a kind of hash table that maps keys to values		CO-3	PO-1
(i) Tuples	(ii) List		
(iii) Dictionary	(iv) Number		
g is a low-cost mini computer with the physical size of a credit card.		CO-4	PO-1
(i) Raspberry Pi	(ii) SMPS		
(iii) Both (a) and (b)	(iv) None		
h. The function SD card access is done by the Raspberry Pi status LED		CO-4	PO-1
(i) LNK	(ii) PWR		
(iii) ACT	(iv) FDX		
7.2 7		CO-2	PO-1
(i) M2M	(ii) I2M		
(iii) Both (a) and (b)	(iv) None		
Which of the following is the wireless s	ensor networks?	CO-1	PO-1
(i) Wealth Monitoring System	(ii) Surveillance System		
	persistent communication between the c (i) Push – Pull (iii) Request – Response	is a bi-directional, fully duplex communication model that uses a persistent communication between the client and server (i) Push – Pull (ii) Publish – Subscribe (iii) Request – Response (iv) Exclusive Pair	persistent communication between the client and server (i) Push – Pull (ii) Publish – Subscribe (iii) Request – Response (iv) Exclusive Pair ————————————————————————————————————

PART – B: (Short Answer Questions)		$(2 \times 5 = 10 \text{ Marks})$		
Q.2.	0.2. Answer <i>ALL</i> questions		O#]	[PO#]
a.	What are the different types of functional blocks available in IoT?	CO-1		PO-1
b.	What do you mean by YANG?	CO-2		PO-1
c.	What is the role of Data Model Manager?			PO-1
d.	What is the difference between Physical and Virtual Entity?	CO-3 Po		PO-1
e.	Why do we call Raspberry Pi is an exemplary device?	CO-4 PO-1		PO-1
PART – C: (Long Answer Questions)		$(6 \times 5 = 30 \text{ Marks})$		
		(-		,
Ansv	wer ANY FIVE questions	Marks	[CO#]	[PO#]
3.	With neat diagram, explain the different types of layers available in IoT Protocols.	(6)	CO-1	PO-1
4.	Determine the IoT levels for designing home automation IoT systems including Smart Lighting and Intrusion detection.	(6)	CO-1	PO-2
5.	Expand and Explain SDN.	(6)	CO-2	PO-1
6.	List out the Network Operator Requirements.	(6)	CO-2	PO-1
7.	What are the different types of Datatypes and Data structures available in Phython? Explain each one of them.	(6)	CO-3	PO-1
8.	How do you implement files in Phython? Give an example.	(6)	CO-3	PO-1
9.	How do you control LED with Raspberry pi?	(6)	CO-4	PO-1
10.	Whether does Raspberry Pi support various flavours of Linux? If yes, specify it in detail.	(6)	CO-4	PO-2

--- End of Paper ---