K. J. Somaiya Institute of Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai) C6053 Subject Name: Internet of Things

Subject Code: AIDLC6053

Date: 22/05/2024

	May – June 2024 (B.Tech.) Program: Artificial Intelligence & Data Science	69V15V6 (6)		
	ourse Code: AIDLC6053 Examination: TY Semester: VI	<u>ce</u>	in and the	
D	uration: 2.5 Hours Course Na	ame: Inter	net of	f Things
	nstructions:	erani e e e e e e e e e e e e e e e e e e e	Max. N	larks: 60
(2	Draw neat diagrams wherever applicable			
(3)	Assume suitable data, if necessary.	lanc aprival	i dinia	
	ellow (A.V.P.) using lot system	Max. Marks	CC	BT level
Q	A RESERVE AND A	12		
i)	How does the classification of IoT as level 1 to 5 happen? Explain.	2	1	R
ii)	Compare the packet format of IPv4 and IPv6.	2	2	R
iii)	List the different environmental issues in IoT based design.	2	3	U
iv)	What refers to acquiring the data from IOT/M2M devices?	2	4	U
v)	Which sensors can detect presence or absence of vehicle in smart parking system?	2	5	R
vi)	What are the advantages of IoT in energy monitoring system.	2	6	U
vii)	Justify the statement "MQTT follows the publish – subscribe pattern".	2	2	Ü
viii)	Explain Face Recognition using IoT.	2	6	R
Q.2	Solve any four questions out of six.	16		K
i)	What are the challenges in building an application with IoT?	4	1	U
ii)	What is Internet Protocol? How many classes are there in IPv4?	4	2	UA
iii)	Describe in short various steps in IoT design methodology.	4	3	-U
v)	Explain cloud computing paradigm for data collection and storage.	4	4	U
r)	Short note on ESP32/8266.	4	5	II
ri)	Explain Home Automation using IoT.	4	6	U D
0.3	Solve any two questions out of three.	16		
	Draw and Explain basic block diagram of IoT.	8	1	U

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ii)	Give a brief overview of Data acquiring, organizing and processing in IoT systems.	8	4 D	
iii)	Explain the interfacing of Arduino with sensors in detail with diagram.	8	5	II
Q.4	Solve any two questions out of three.	16	1 100	fle to
i)	Explain AMQP protocol in detail with diagram.	8 21	2	1/11
ii)	Explain device and component Integration in IoT design methodology.	8	3	66/II
ii)	Explain object detection (ANPR) using IoT system.	8	6	R

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	The late and steams out of the late **********		
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	Compere the packer format of IPv4 and 19v6.		
	List the different environmental issues in LeT based design.		
	Which consort can detect presence or absence of prhick in smart parking system?	Page	
	What are the advantages of ToT is spengy manhacing system.		
	Justicy statement " MOTT follows the publish - subscribe pattern":		
	Excluse Face Recognition using loT.		
	Sorve any four questions on al six.		
	What is interned Protocol? How many classes are light in (PAP).	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Specialization miscale for in 20. In money mode of consumal		
1 (44)	Explain cloud consuming purely on for data collection and storage.		
	Solve any live questions out of tipice.		