R20

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
Siddharth Nagar, Narayanavanam Road – 517583
QUESTION BANK (DESCRIPTIVE)

Subject with Code: MOBILE APPLICATION DEVELOPMENT FOR IOT (20CS1017)
Course & Branch: B.Tech – CSE(CIC)

Regulation: R20   **Year & Sem:** IV-B.Tech & I-Sem

UNIT –I
IOT-OVERVIEW

1	**a)**	What is an IoT?	[L1, CO1]	**[6M]**
	b)	What is M2M?	[L1, CO1]	**[6M]**
2	**a)**	Draw the neat diagram an IoT Architecture outline.	[L2, CO1]	**[6M]**
	b)	Explain about Building an architecture	[L2, CO1]	**[6M]**
3	**a)**	What is Device? Explain different types devices.	[L1, CO1]	**[6M]**
	b)	Explain about Gateways.	[L2, CO1]	**[6M]**
4	**a)**	Explain about Wide area networking?	[L2, CO1]	**[6M]**
	b)	Explain about Local area networking?	[L2, CO1]	**[6M]**
5	Explain about data management		[L2, CO1]	**[12M]**
6	Explain various Business processes in IoT		[L2, CO1]	**[12M]**
7	**a)**	Explain about Everything as a Service	[L2, CO1]	**[6M]**
	b)	Explain about M2M and IoT analytics	[L2, CO1]	**[6M]**
8	Explain analytics architectural with neat diagram		[L2 CO1]	**[12M]**
9	Explain about Knowledge management		[L2, CO1]	**[12M]**
10	**a)**	What are the Main design principles of IoT	[L1, CO1]	**[6M]**
	b)	Differentiate M2M and IoT	[L4, CO1]	**[6M]**

UNIT –II
BASIC DESIGN

1		List out the difference between embedded system and embedded OS	[L1, CO2]	**[12M]**
2	a)	Demonstrate the importance of embedded OS.	[L2, CO2]	**[6M]**
	b)	List the characteristics of mobile devices	[L1, CO2]	**[6M]**
3		Summarize in detail about the embedded system design	[L2 ,CO2]	**[12M]**
4	a)	Describe about mobile application	[L2, CO2]	**[6M]**
	b)	Explains about mobile application architecture	[L2, CO2]	**[6M]**
5	a)	Explain about Touch events.	[L2, CO2]	**[6M]**
	b)	Write a note on various Gestures	[L1, CO2]	**[6M]**
6	a)	Generalize the different types of mobile OS in detail.	[L2, CO2]	**[6M]**
	b)	Prepare the comparison of hardware & software constraints.	[L3, CO2]	**[6M]**
7		Discuss the role of quality constrains in mobile applications.	[L2, CO2]	**[12M]**
8		Discuss on performance, usability, security, availability and modifiability	[L2, CO2]	**[12M]**
9		Write a note on various issues in Embedded system design.	[L1, CO2]	**[12M]**
10		What are the Design constraints for mobile application	[L1, CO2]	**[12M]**

UNIT –III
IoT MOBILE APPS

1	a)	Define Mobile application.	[L1, CO4]	**[6M]**
	b)	Describe UI Design for IoT Mobile Apps	[L2, CO4]	**[6M]**
2	a)	What are the challenges of UX/UI design for IoT applications	[L1, CO3]	**[6M]**
	b)	What is User Experience	[L1, CO3]	**[6M]**
3	a)	What are the Benefits of IoT-based Mobile Apps?	[L1, CO4]	**[6M]**
	b)	Explain about IOT mobile App Development Trends	[L2, CO4]	**[6M]**
4		Explain the significance of quality in mobile applications also narrate the various constrains in designing an application in mobile	[L2, CO3]	**[12M]**
5		What are the pros and cons of IoT-based Mobile Apps?	[L1, CO4]	**[12M]**
6		How IoT is changing mobile apps? Explain	[L4, C04]	**[12M]**
7		Explain about Challenges of UX/UI design for IoT applications	[L3, CO3]	**[12M]**
8		How do mobile apps play a crucial role in revolutionizing the world of IoT?	[L2, CO3]	**[12M]**
9		What is layout? Explain the types of layouts with example.	[L1, CO3]	**[12M]**
10		Explain UI widgets in android.	[L2, CO3]	**[12M]**

UNIT –IV
TECHNOLOGY-I ANDROID

1	**a)**	Define android operating system.	[L1, CO5]	**[6M]**
	b)	Define user interface.	[L1, CO5]	**[6M]**
2	**a)**	Describe in detail about the android architecture	[L1, CO5]	**[6M]**
	b)	Discuss about the activities in android	[L2, CO5]	**[6M]**
3	**a)**	Discuss about the activities in android.	[L2, CO5]	**[6M]**
	b)	Interpret views in android	[L3, CO5]	**[6M]**
4	**a)**	Describe in detail about Persisting data using SQLite	[L2, CO5]	**[6M]**
	b)	Demonstrate on user interface in androids.	[L2, CO5]	**[6M]**
5	**a)**	Identify and explain in detail about packaging and its applications	[L2, CO5]	**[6M]**
	b)	Develop an example to show the interaction with UI	[L3.CO5]	**[6M]**
6	**a)**	Discuss on Google maps	[L2, CO5]	**[6M]**
	b)	Give a note on GPS and Wi-Fi	[L2, CO5]	**[6M]**
7	**a)**	Compare and contrast interacting with UI & server-side applications,	[L2, CO5]	**[6M]**
	b)	Explain in detail how to interact with the server-side applications.	[L2, CO5]	**[6M]**
8		Explain in detail about the integration of social media applications with suitable example	[L2, CO5]	**[12M]**
9	**a)**	Describe about Application Packaging	[L1, CO5]	**[6M]**
	b)	Evaluate the features of Wi-fi	[L5, CO5]	**[6M]**
10	**a)**	Analyze the importance of social media networks.	[L4, CO5]	**[6M]**
	b)	Rewrite the tools used in social media integration.	[L2, CO5]	**[6M]**

UNIT –V
TECHNOLOGY-II ANDROID THINGS

1	**a)**	Define Android things?	[L1, C06]	**[6M]**
	b)	What is API in Android IoT?	[L1, CO6]	**[6M]**
2		Explain about Installation process of Android things	[L2, CO6]	**[12M]**
3	**a)**	What security features does Android Things provide for IoT devices?	[L1, CO6]	**[6M]**
	b)	What are the Benefits of Android Things?	[L1, CO6]	**[6M]**
4		Briefly Explain how to build First IOT Android app	[L2, CO6]	**[12M]**
5		What kind of applications can be developed with Android Things?	[L1, CO6]	**[12M]**
6		Give the PROS and Cons of Android IOT things?	[L2, CO6]	**[12M]**
7		Distinguish between Android OS and Windows OS	[L4, CO6]	**[12M]**
8		What are some common components needed for an IoT project?	[L2, CO6]	**[12M]**
9		Briefly Explain about Raspberry board.	[L2, CO6]	**[12M]**
10		Briefly Explain about Arduino board.	[L2, CO6]	**[12M]**

Prepared by:
Mr. E. Murali, Asst.Professor, CSE Dept, SIETK