

Code No: R18A1207

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Mobile Application Development****(CSE)**

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

			<u>SECTION-I</u>	BCLL	CO(s)	Marks
1	A	Explain about Android OS and its features		L2	CO-I	[7M]
	B	Describe about Android virtual Device(AVD)		L3	CO-I	[7M]
		OR				
2	A	Discuss Android framework development with neat Diagram		L3	CO-I	[7M]
	B	Explain about Activity states in python		L2	CO-I	[7M]
		<u>SECTION-II</u>				
3	A	Explain about four main components that can be used within an Android application		L2	CO-II	[7M]
	B	Elaborate about Building user interface based on Linear and Relative Layout		L4	CO-II	[7M]
		OR				
4	A	Explain about Externalizing Resources based on Menus		L2	CO-II	[7M]
	B	Discuss about Basic Android User Interface(UI) design		L3	CO-II	[7M]
		<u>SECTION-III</u>				
5	A	Explain about Fragments states with neat Diagram		L2	CO-III	[7M]
	B	Discuss about the activities of adding fragments with example		L3	CO-III	[7M]
		OR				
6	A	List and Explain about the activities of the fragment Lifecycle		L4	CO-III	[7M]
	B	Discuss Fragment transactions with example		L3	CO-III	[7M]
		<u>SECTION-IV</u>				
7	A	How intents can be utilized to launch activities give example		L3	CO-IV	[7M]
	B	Elaborate How data can be passed to intents explain with example		L3	CO-IV	[7M]
		OR				
8	A	Explain about Action intent object with its methods and description		L2	CO-IV	[7M]
	B	Write about broadcast receivers based on intents.		L2	CO-IV	[7M]
		<u>SECTION-V</u>				
9	A	Explain about SQLite database creation and opening database with syntax		L2	CO-V	[7M]
	B	Discuss about Table creation mechanism in SQLite with example		L3	CO-V	[7M]
		OR				
10	A	Explain about the methods involved in Database Insertion SQLite		L2	CO-V	[7M]
	B	Write the steps to insert the data in the table in SQLite also give example		L3	CO-V	[7M]

Code No: R18A0518

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Computer Networks****(CSE & IT)**

Roll No									

Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

SECTION-I

			BCLL	CO(s)	Marks
1	A	Explain in detail about OSI reference model with neat diagram.	L2	CO-I	[7M]
	B	Explain the significance of Switching? What are different switching techniques used in computer networks? Discuss.	L2	CO-I	[7M]
OR					
2	A	Explain in detail about TCP/IP Protocol architecture.	L2	CO-I	[7M]
	B	With neat sketch explain Twisted pair cables, connectors of twisted pair cables with neat graph explain the performance of Twisted pair cables.	L3	CO-I	[7M]

SECTION-II

3	A	Describe the functions of Data Link Layer.	L2	CO-II	[7M]
	B	A slotted ALOHA network transmits 200-bit frames using a shared channel with a 200-kbps bandwidth. Find the throughput if the system produces 1000 frames per second	L3	CO-II	[7M]
OR					
4	A	Identify the significance of IP address, MAC address and Port number in network layer.	L2	CO-II	[7M]
	B	Examine the frame structure and bit stuffing process of Bit oriented Protocol used in Data link control.	L2	CO-II	[7M]

SECTION-III

5	A	Describe the functionality of the network layer at a source, at a router, and at the destination.	L2	CO-III	[7M]
	B	With an example explain the distance vector routing algorithms used in computer networks	L2	CO-III	[7M]
OR					
6	A	Examine different methods used for transition of address from IPv4 to IPv6.	L2	CO-III	[7M]
	B	What are the general principles of congestion control algorithm? Explain.	L2	CO-III	[7M]

SECTION-IV

7	A	Describe the protocols of transport layer and Explain the working principle of UDP.	L2	CO-IV	[7M]
	B	Give the format of TCP header and discuss the relevance of	L3	CO-IV	[7M]

various fields

OR

- 8** **A** Write about connectionless unreliable transport protocol and its services. **L2** **CO-IV** [7M]
- B** Explain the general principles of congestion prevention policies. **L2** **CO-IV** [7M]

SECTION-V

- 9** **A** Discuss the features of HTTP and also discuss how HTTP works. **L3** **CO-V** [7M]
- B** Describe the role of a DNS on a computer network with reference to its components **L2** **CO-V** [7M]

OR

- 10** **A** With neat sketch explain the architecture, services and message format of Electronic Mail. **L2** **CO-V** [7M]
- B** Explain about HTML with its functionalities. **L2** **CO-V** [7M]

Code No: R18A0521

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Cyber Security**

(IT)

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

			BCLL	CO(s)	Marks
<u>SECTION-I</u>					
1	<i>A</i>	Explain about the layers of security.	L2	CO-I	[7M]
	<i>B</i>	Distinguish between cyber-attacks and cyber threats.	L4	CO-I	[7M]
OR					
2	<i>A</i>	Explain in detail about CIA Triad with neat diagram.	L2	CO-I	[7M]
	<i>B</i>	Discuss in detail about the Cyber Criminals.	L3	CO-I	[7M]
<u>SECTION-II</u>					
3	<i>A</i>	Discuss about the Digital forensics.	L2	CO-II	[7M]
	<i>B</i>	What are cyber security regulations? Explain briefly.	L1	CO-II	[7M]
OR					
4	<i>A</i>	What is forensics? Explain about Computer forensics.	L1	CO-II	[7M]
	<i>B</i>	Explain about the digital forensics life cycle with neat sketch.	L2	CO-II	[7M]
<u>SECTION-III</u>					
5	<i>A</i>	Explain about the Proliferation (growth) of mobile and wireless devices.	L5	CO-III	[7M]
	<i>B</i>	Explain about the registry settings for mobile devices.	L5	CO-III	[7M]
OR					
6	<i>A</i>	Differentiate WPA and WPA2.	L4	CO-III	[7M]
	<i>B</i>	Explain various organizational security policies.	L2	CO-III	[7M]
<u>SECTION-IV</u>					
7	<i>A</i>	Discuss about some Organizational Implications.	L2	CO-IV	[7M]
	<i>B</i>	What is the cost of cybercrimes? Explain IPR issues.	L1	CO-IV	[7M]
OR					
8	<i>A</i>	What is social computing? Explain about the associated challenges for organizations.	L2	CO-IV	[7M]
	<i>B</i>	What is Trademark? Explain in detail about its usage.	L2	CO-IV	[7M]
<u>SECTION-V</u>					
9	<i>A</i>	Discuss about the fundamental concepts of data privacy.	L2	CO-V	[7M]
	<i>B</i>	Explain about data privacy attacks.	L5	CO-V	[7M]
OR					
10	<i>A</i>	What is Email spoofing? How to protect yourself from this?	L3	CO-V	[7M]
	<i>B</i>	What is intellectual property violation? Explain with an example.	L5	CO-V	[7M]

Code No: R18A0453

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Internet of Things & Its Applications****(ECE, CSE & IT)**

Roll No									

Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

			BCLL	CO(s)	Marks
<u>SECTION-I</u>					
1	A	Describe the IoT enabling Technologies & M2M Communication with suitable explanations.	L1	CO-I	[7M]
	B	Explain in detail IOTWF standardized Architecture.	L2	CO-I	[7M]
OR					
2		Describe the simplified IoT Architecture.	L2	CO-I	[14M]
<u>SECTION-II</u>					
3	A	Describe Physical and MAC layers Topology and Security of IEEE 802.15.4		CO-II	[7M]
	B	Analyze in detail Lora WAN technology, illustrating the layers, MAC format and Architecture.	L4	CO-II	[7M]
OR					
4	A	Discuss the following: a) IEEE 802.11ah b) IP versions	L1	CO-II	[7M]
	B	Briefly discuss about Constrained nodes and Networks	L2	CO-II	[7M]
<u>SECTION-III</u>					
5		Demonstrate the key steps involved in IoT Design methodology in detail	L1	CO-III	[14M]
OR					
6	A	Discuss about the following i) SoC ii) Microcontrollers	L1	CO-III	[7M]
	B	Discuss in detail the use of embedded computing in the design of IoT Systems. (i) Analyze in detail an exemplary device: Raspberry Pi. (ii) Explain in detail the Raspberry Pi interfaces.	L2	CO-III	[7M]
<u>SECTION-IV</u>					
7	A	What is the difference between structured data and unstructured one, mention examples for each one	L1	CO-IV	[7M]
	B	What is the difference between data in motion and data in rest, mention examples for each one	L2	CO-IV	[7M]
OR					
8	A	Explain IoT Data Analytics challenges..	L1	CO-IV	[7M]
	B	Explain about Data Acquiring and Organizing in IoT/M2M	L2	CO-IV	[7M]
<u>SECTION-V</u>					
9	A	Explain the smart home automation system in an IOT?	L1	CO-V	[7M]
	B	Discuss the Infrastructures and Buildings development of an IOT?	L2	CO-V	[7M]
OR					
10	A	Describe the application of Securities and industrial automation in an IoT.	L1	CO-V	[7M]
	B	Explain Industry 4.0 concepts	L2	CO-V	[7M]

Code No: R18A0517

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, June 2024**Web Technologies**

(CSE)

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

		<u>SECTION-I</u>	BCLL	CO(s)	Marks
1	A	Discuss text properties of CSS with an examples.	L2	CO-I	[7M]
	B	Divide the web page into four equal parts each individual part displays different web page using frames	L3	CO-I	[7M]
OR					
2	A	What are various form elements? Explain	L1	CO-I	[7M]
	B	Write a java script to validate registration form of following fields Username(contains only alphanumeric characters) Password(min length 6 and max length 8) Mobile(must contains only numbers)	L3	CO-I	[7M]
<u>SECTION-II</u>					
3	A	What are the limitations of Document Type Definitions (DTDs)? How these limitations are overcome using XML schema?	L3	CO-II	[7M]
	B	Compare and contrast between DOM and SAX parsers.	L4	CO-II	[7M]
OR					
4	A	Explain about the syntax of XML document & how a basic XML document is created with a suitable example.	L3	CO-II	[7M]
	B	Write a DTD for an employee(emp_id,emp_name(firstname,lastname), dob(dd,mm,yyyy), Address (city, state)).	L2	CO-II	[7M]
<u>SECTION-III</u>					
5	A	Write a servlet program to read the client request parameters.	L3	CO-III	[7M]
	B	Explain the servlet lifecycle methods with an example.	L2	CO-III	[7M]
OR					
6	A	Write a servlet program to add the cookies to client machine.	L3	CO-III	[7M]
	B	Write the differences between GenericServlet and HttpServlet class.	L2	CO-III	[7M]
<u>SECTION-IV</u>					
7	A	Write and explain various steps to connect Database using JDBC.	L1	CO-IV	[7M]
	B	Write a Servlet program to update the database table.	L3	CO-IV	[7M]
OR					
8	A	Write a servlet program to retrieve the data from the data base and display the data in a table format.	L3	CO-IV	[7M]
	B	Explain the struts framework.	L2	CO-IV	[7M]
<u>SECTION-V</u>					
9	A	Explain how JSP page is processing by web server.	L2	CO-V	[7M]
	B	Explain various jsp scripting elements with an examples.	L2	CO-V	[7M]

OR

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|----|---|---|-----------|-------------|-------------|
| 10 | A | Compare and contrast servlets and jsp. | L3 | CO-V | [7M] |
| | B | Write a jsp pages to sharing the data between two pages using session Object. | L3 | CO-V | [7M] |
