

Code No: R18A1207

R18

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, April 2023

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.

SECTION-I

- 1 (a) List features of the Android Operating System. [7M]
(b) List all attributes to develop a simple button in an Android application. [7M]
- OR
- 2 (a) Discuss all versions of the Android operating system. [7M]
(b) Draw and explain the life cycle of an activity. [7M]

SECTION-II

- 3 Develop an application to send and receive SMS (Write ONLY .java and permission tag in the manifest file). [14M]
- OR
- 4 Observe the following GUI and write an XML file using a relative layout to create the same. [14M]



SECTION-III

- 5 (a) Define content provider and explain fragments. [7M]
(b) Implement Android Fragment on CreateView(). [7M]
- OR
- 6 Explain when we can recreate activities and fragments. Discuss with a case study. [14M]

SECTION-IV

- 7 Explain the following
(a) What are the ways to receive broadcasts? [7M]
(b) Create an instance of IntentFilter. [7M]
- OR
- 8 Explain the following scenario: [14M]
Choose whether the broadcast receiver should be exported and visible to other

apps on the device. If this receiver is listening for broadcasts sent from other apps—even other apps that you own—use the RECEIVER_EXPORTED flag. If instead, this receiver is listening only for broadcasts sent by your app or the system, use the RECEIVER_NOT_EXPORTED flag.

SECTION-V

- 9** Justify why SQLite Database is a better option for storing the data. **[14M]**
- OR
- 10** Develop an application to store student details like roll no, name, branch, marks, and percentage and retrieve student information using roll no. in SQLite databases. **[14M]**

Code No: **R18A0517****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, April 2023**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.

SECTION-I

1 Define Frameset and Frame Tag. Divide the web page into four equal parts each individual part displays a different web page. [14M]

OR

2 (a) Define Table tag and their attributes with an example. [7M]

(b) Explain Cascading Style Sheets with an example. [7M]

SECTION-II

3 (a) Describe elements in XML. Discuss different types of content of Elements in XML. [7M]

(b) What are the benefits of using XML when compared to HTML? Where is XML better than HTML? [7M]

OR

4 a) Design a PHP script for uploading a file to the server and displaying the details of the uploaded file. [7M]

b) List and explain the string functions in PHP. [7M]

SECTION-III

5 (a) What are the different types of session tracking mechanisms supported by Servlets? [7M]

(b) Develop a Servlet that handles an HTTP POST request. [7M]

OR

6 Explain about Lifecycle of a Servlet with a neat diagram. [14M]

SECTION-IV

7 Discuss the JDBC API components with suitable examples. [14M]

OR

8 (a) How can we set a null value in JDBC Prepared-Statement? [7M]

(b) What are the differences between execute, execute-Query, and execute-Update? [7M]

SECTION-V

9 Explain about the getProperty() and setProperty() of beans in JSP with suitable examples. [14M]

OR

10 (a) Discuss all implicit objects in JSP with a suitable example? [7M]

(b) Explain about the JSP processing with suitable examples. [7M]

Code No: **R18A0518****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

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III B.Tech II Semester Supplementary Examinations, April 2023**Computer Networks****(CSE & 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.

SECTION-I

- 1 Compare and Contrast different layers of ISO-OSI Reference Model with TCP/IP Reference Model. [14M]

OR

- 2 What is Switching? Explain various types of Switching with examples [14M]

SECTION-II

- 3 What is Error Detection and Correction? Explain the Cyclic Redundancy Check (CRC) with an example [14M]

OR

- 4 Give brief account of Bridges, Repeaters, Hubs, Switches, Routers and Gateways [14M]

SECTION-III

- 5 Differentiate Connection-Oriented Vs Connectionless Networks with appropriate diagrams [14M]

OR

- 6 What is IP Address? What do you mean by Sub netting and Super netting? Compare IPv4 Vs IPv6. [14M]

SECTION-IV

- 7 Discuss Error Control and Flow Control in Transport Layer [14M]

OR

- 8 Explain how a connection is established resealed in a TCP protocol [14M]

SECTION-V

- 9 Illustrate the Client- Server Model and Explain. [14M]

OR

- 10 Discuss the following [7M]
a. HTTP, E-mail [7M]
b. WWW, TELNET [7M]

Code No: **R18A0521****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

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III B.Tech II Semester Supplementary Examinations, April 2023**Cyber Security****(CSE & 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.

SECTION-I

1 Illustrate the seven layers of Cyber Security. Discuss about Security Vulnerabilities , Threats and Attacks. [14M]

OR

2 What are different Types of Cyber Attacks? Distinguish between Hardware vs Software attacks. [14M]

SECTION-II

3 Give an account of Digital Forensics and the need for Computer Forensics [14M]

OR

4 Discuss in detail the Challenges in Computer Forensics. [14M]

SECTION-III

5 Explain Credit card Frauds in Mobile and Wireless Computing Era [14M]

OR

6 Enumerate and explain Security Challenges Posed by Mobile Devices, Registry Settings for Mobile Devices. [14M]

SECTION-IV

7 Explain about web threats for organizations, security and privacy implications [14M]

OR

8 Discuss about social computing and the associated challenges for organizations [14M]

SECTION-V

9 What are Privacy issues? Give an account of Data Privacy Attacks, Data linking and profiling [14M]

OR

10 Give brief account of few Cybercrime Examples [14M]

Code No: **R18A0453****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, April 2023**Internet of Things & Its Applications****(EEE, ECE, CSE, IT & AE)**

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

1 What is Internet of Things (IoT). What are components required to design IoT Device and explain IoT eco system. [14M]

OR

2 What are sensors and actuators? Explain in detail. What is Machine to Machine communication (M2M)? [14M]

SECTION-II

3 Explain with example MQTT Protocol. What is the role of MQTT protocol in IoT? what are the features of MQTT protocol? [14M]

OR

4 What is role of Cloud Computing and Big Data in Internet of Things? Explain the IoT analysis. [14M]

SECTION-III

5 Explain the design methodology in the implementation of IoT applications. [14M]

OR

6 Explain about Raspberry Pi. [14M]

SECTION-IV

7 Give complete details of IoT Data Analytics Challenges [14M]

OR

8 What is cloud computing in IoT? And explain cloud services in IoT. [14M]

SECTION-V

9 Design a smart home automation system in IoT. [14M]

OR

10 Implement the air pollution monitoring system in IoT [14M]
