

Code No: R18A1207

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

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

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

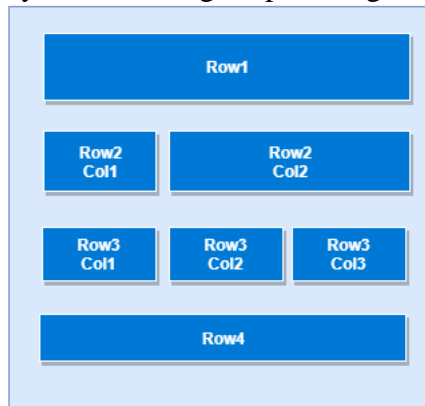
Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 (a) Define Android Virtual Devices (AVD) with a suitable example. [7M]
 (b) Explain the activity life cycle with a suitable example. [7M]
- OR
- 2 (a) Describe types of permissions used while developing android applications. [7M]
 (b) List and explain the challenges of the Android App. Development. [7M]

SECTION-II

- 3 Write a program to locate the user's current location (Write ONLY .java and manifest file). [14M]
- OR
- 4 Write a program to display the following output using a suitable layout. [14M]

**SECTION-III**

- 5 (a) Define fragments. And explain how can we create it in an Android application. [7M]
 (b) How to implement a single activity class consisting of two fragments. [7M]
- OR
- 6 Discuss the implementation process of Text Fragment comprised of text views holding the android version name and number. [14M]

SECTION-IV

- 7 (a) Implement two actions using intents namely calling a phone number and opening a URL. [7M]
 (b) Differentiate between Broadcast Receivers and Services. [7M]

OR

- 8** Discuss the following statements:
- (a) Register the receiver by calling registerReceiver(). [7M]
 - (b) What are the ways to send broadcasts? [7M]
- SECTION-V**
- 9** Demonstrate with code snippet of database operation with SQLite database. [14M]
- OR
- 10** Build a GUI for a Student table with 5 records, and write queries to add, delete and view the records from the SQLite databases. [14M]
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Code No: R18A0518**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech II Semester Supplementary Examinations, January 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

- 1 What is Network? What are different types and uses of Networks? Discuss briefly about the Architecture of Internet. [14M]

OR

- 2 Illustrate and explain various Guided Transmission Media. [14M]

SECTION-II

- 3 Give brief account of Sliding Window Protocols [14M]

OR

- 4 Explain in detail CSMA/CD and Collision Avoidance with appropriate diagrams [14M]

SECTION-III

- 5 What is Routing? Discuss DVR Routing with example. What is Count to infinity problem? [14M]

OR

- 6 Explain in detail Address Resolution Protocol(ARP) and RARP. [14M]

SECTION-IV

- 7 What are the services provided by Transport Layer to Upper Layers? [14M]

OR

- 8 Compare and Contrast TCP and UDP Protocols [14M]

SECTION-V

- 9 What is DNS? Explain its working with examples. [14M]

OR

- 10 Explain briefly WWW, HHTP and E-mail. [14M]

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

(Autonomous Institution – UGC, Govt. of India)

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

1 What is Cyber Security? Why is Cyber Security important? Discuss the fundamentals of Cyber Security. [14M]

OR

2 What are different Types of Cyber Attacks? Explain in detail Web-Based attacks and System-Based attacks. [14M]

SECTION-II

3 Discuss the Cyber Security Regulations and Roles of International and Indian Cyber Space. [14M]

OR

4 Illustrate Digital Forensics Life Cycle and explain each phase. Discuss the Forensics Analysis of Email. [14M]

SECTION-III

5 Discuss the Proliferation Mobile and Wireless devices and the Trends in Mobility [14M]

OR

6 Describe the Organizational security Policies and Measures in Mobile Computing Era, Laptops [14M]

SECTION-IV

7 Explain about cost of cybercrimes and IPR issues [14M]

OR

8 Give an account of social media marketing: security risks and perils for organizations [14M]

SECTION-V

9 Enumerate Privacy issues : policies and their specifications, privacy policy languages [14M]

OR

10 Discuss few examples of Cybercrime Mini-Cases [14M]

Code No: R18A0453

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 2024**Internet of Things & Its Applications**

(ECE, 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 Define IoT. Explain the enabling technologies of IoT. [14M]

OR

- 2 Explain the Functional blocks of an IoT ecosystem. And discuss about sensors and actuators. [14M]

SECTION-II

- 3 Explain physical and MAC layers of IEEE 802.15.4 [14M]

OR

- 4 Explain CoAP and MQTT protocols. [14M]

SECTION-III

- 5 What are the differences between the microcontrollers board and SoC for the IoT system applications with suitable examples. [14M]

OR

- 6 Explain Arduino board with neat diagram. [14M]

SECTION-IV

- 7 What is role of Cloud Computing and Big Data in Internet of Things? And explain Data acquiring and its importance in IoT. [14M]

OR

- 8 Explain the different cloud deployment and service models. [14M]

SECTION-V

- 9 Explain the Industry 4.0 concepts and also list its benefits. [14M]

OR

- 10 Describe how the environment can be more protected with the help of IoT technology in the following categories: [3M]

(i) Air pollution monitoring [4M]

(ii) Noise pollution monitoring [3M]

(iii) Forest fire detection [4M]

(iv) River flood detection

Code No: R18A0517

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 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.

SECTION-I

- 1 (a) Explain the structure of the HTML webpage with an example. [7M]
(b) Define the List Tag with an example. [7M]
OR
- 2 Define Form tag. Design a registration page by using all Form controls. [14M]

SECTION-II

- 3 How and where XML can be used? How to convert XML documents in XML (with a different DTD), HTML, and other formats? [14M]
OR
- 4 Write the following: [14M]
(a) Design a PHP program to print the reverse of any number,
(b) Define PHP Function.
(c) List various types of arrays supported by PHP. How to declare arrays in PHP.
(d) What is the use of the \$ symbol in PHP, explain with an example.
(e) Design a PHP code to swap any two numbers.
(f) List any two advantages of PHP
(g) List various String Functions in PHP.

SECTION-III

- 5 (a) What is the difference between Generic Servlet and HTTP Servlet? [7M]
(b) Discuss about Session tracking in Servlets with a suitable example. [7M]
OR
- 6 Write a servlet that lets a user vote for his favorite food from a combo box or radio buttons (the user must be able to make multiple food selections per request). [14M]
• Store the favorite foods and the number of votes for each food.
• Display all foods and their number of votes in alphabetical order back to the user.
• Use an appropriate Collection class or Map class to store the data.

SECTION-IV

- 7 (a) Explain how you can build a relationship between the different databases in Access? [7M]
(b) Mention how you can create a simple query in JDBC. [7M]
OR
- 8 (a) Explain the use of the WHERE clause in SQL. [7M]
(b) What are the steps to connect to the database in java? [7M]

SECTION-V

- 9** Explain about the JSP directive Elements. Explain each of them in detail. **[14M]**
- OR**
- 10** What are the Beans on the JSP page? Explain the procedure how to Deploy java Beans on a JSP page **[14M]**
