

Hall Ticket Number:

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION**March, 2018****Seventh Semester****Time:** Three Hours**Information Technology****ADVANCED CYBER SECURITY****Maximum:** 60 Marks*Answer Question No.1 compulsorily.*

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

(1X12=12 Marks)

1. Answer all questions
 - a) Where do we use Dmirty tool?
 - b) What is reconnoianse?
 - c) How 'ssh' will works?
 - d) What is port?
 - e) What is the need of IPTable?
 - f) What is the need for Web Application Security?
 - g) What is Incident Response?
 - h) What is FTK?
 - i) How to analyse RAM?
 - j) What is data Backup?
 - k) What is the need of Logwatch?
 - l) What is log?

UNIT I

2. a) Explain about working procedure of Zenmap tool 6M
 - b) How to pass the hash and crack LM hashes? Explain. 6M
- (OR)**
3. a) Write a short note on telnet and smb scanners 6M
 - b) Explain about online password attacks. 6M

UNIT II

4. a) Explain about snort rules. 6M
 - b) How mod_security-reference will be used for web application security? Explain 6M
- (OR)**
5. a) Discuss on configuring of network devices with example. 6M
 - b) Explain about functioning of mail-scanner reference. 6M

UNIT III

6. a) Write a short note on Detection and Analysis of IR 6M
 - b) How to recover deleted information by using FTK? Explain 6M
- (OR)**
7. a) Discuss about investigation of Unix system based on artifacts. 6M
 - b) What is IR? Explain in detail about IR needs and Goals. 6M

UNIT IV

8. a) Write a short note on types of back up. 6M
 - b) How to back up the data using rsync? Explain. 6M
- (OR)**
9. a) Explain in detail about log management and its need. 6M
 - b) What is event log? Discuss about log analysis and response. 6M

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION**March, 2018****Seventh Semester****Time:** Three Hours**Common for CSE & IT****Advanced Data Analytics****Maximum : 60 Marks***Answer Question No.1 compulsorily.**(1X12 = 12 Marks)**Answer ONE question from each unit.**(4X12=48 Marks)**(1X12=12 Marks)*

1. Answer all questions

- a) What is a Big Data?
- b) Define Hadoop ecosystem.
- c) What are the Mapreduce components?
- d) Write syntax of load statement in Hive.
- e) What is RDD.
- f) Define Sqoop import.
- g) Define namenodes and datanodes in HDFS.
- h) Why blocks are large in HDFS?
- i) What is the default scheduler in Hadoop?
- j) What is the role of Jobtracker and Tasktracker in Map Reduce?
- k) List the failures in classical Map Reduce.
- l) List the built-in counters in Map Reduce.

UNIT I

2. a) Explain the applications of modeling in business. 6M
 - b) Explain characteristics of Big Data. 6M
- (OR)**
3. a) Explain the design process of HDFS. 6M
 - b) Explain HDFS operations. 6M

UNIT II

4. a) Explain the anatomy of YARN application run. 6M
 - b) Explain in detail about scheduling in YARN. 6M
- (OR)**
5. Explain briefly about shuffle and sort in MapReduce. 12M

UNIT III

6. a) What is Grunt shell? Explain PIG architecture. 6M
 - b) Explain PIG data processing operators. 6M
- (OR)**
7. a) Explain HIVE architecture. 6M
 - b) What is the difference between HIVE and PIG Latin. 6M

UNIT IV

8. Explain SPARK task scheduling and task execution. 12M
- (OR)**
9. What is anatomy of SPARK? Explain job run, job submission and DAG construction. 12M

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION**March, 2018****Seventh Semester****Time:** Three Hours**Information Technology
Enterprise Programming II****Maximum : 60 Marks***Answer Question No.1 compulsorily.*

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

1. Answer all questions

(1X12=12 Marks)

- Who is responsible to create the object of servlet?
- How many variations are there in Java EE Applications,
- What is JDBC Driver?
- What is JSTL?
- What is web socket encoder?
- Write about JSF.
- Define session beans?
- State the purpose of an enterprise java beans (EJB's) home interface?
- What is the Java Bean and Bean Development Kit (BDK)?
- What is SOAP?
- What are different components of WSDL?
- Can we maintain user session in web services?

UNIT I

- What is difference between Get and Post method? 4M
 - Write a simple java EE application for Displaying the current date and time? 8M

(OR)

- What is difference between ServletConfig and ServletContext? 4M
 - Write servlet program for retrieving the http parameter values and display it in next screen? 8M

UNIT II

- Explain the architecture of a JSF with an example? 4M
 - Write a Jsp for registration and login form? 8M

(OR)

- Explain about Java Web socket API's? 6M
 - Create a Web Application to demonstrate Web Sockets. 6M

UNIT III

- Diagrammatically illustrate and discuss the Enterprise Java Bean(EJB) architecture? 6M
 - Write a program for Simple Stateless EJB? 6M

(OR)

- List the steps involved in building and deploying EJB? 6M
 - Draw the life cycle of entity bean and Explain it? 6M

UNIT IV

- Is SOAP as a lightweight protocol Justify it? 6M
 - How is XML used in SOAP? 6M

(OR)

- Write an application to create SOAP Web service? 6M
 - Write WSDL file for credit card validation service? 6M

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION**March, 2018****Seventh Semester****Time:** Three Hours**Information Technology****Mobile Application Development****Maximum : 60 Marks***Answer Question No.1 compulsorily.**(1X12 = 12 Marks)**Answer ONE question from each unit.**(4X12=48 Marks)**(1X12=12 Marks)*

1. Answer all questions

- What is the use of Android Manifest file
- Write the sequence of methods involved in Foreground Activity
- Define Adapter
- What is method used for starting an activity using Intents
- List the different type of resources added using Resource Editor
- What is Geocoding
- How to navigate from one page to another page in windows phone
- What is package.appx manifest
- Write the sequence of App's life cycle
- What is Storyboard
- What is data context
- List some command parameters

UNIT I

- Explain Android application Architecture 8M
 - What are the types of Android applications ? Specify some Android Development tools 4M
- (OR)**
- Explain Activity Life Cycle 6M
 - Define View, ViewGroup & Fragment ? Explain Fragment with simple example 6M

UNIT II

- Explain Implicit Intents 6M
 - Develop an android app for downloading a file from DownloadManager 6M
- (OR)**
- How we can create database in Android using SQLite 6M
 - Develop an android app for display the current position of a person. 6M

UNIT III

- Develop a basic Phone 8.1 app 8M
 - Discuss various XAML controls 4M
- (OR)**
- Explain Hub App template 6M
 - Develop a simple calculator app 6M

UNIT IV

- Explain data Serialization 6M
 - Develop a simple windows app for display current location 6M
- (OR)**
- Develop a simple windows app for display simple animations 8M
 - How to use Command bar & command parameters in Windows Phone 8.1 4M

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION**April, 2018****Electronics & Communication Engineering****Seventh Semester****Mobile Application Development****Time:** Three Hours**Maximum :** 60 Marks*Answer Question No.1 compulsorily.*

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

1. Answer all questions (1X12=12 Marks)

- a) List Android Application Components
- b) Define Activity?
- c) List any one difference between Linear and Relative Layout?
- d) What are the basic GridView attributes?
- e) Define Intent and mention its types?
- f) What are the default methods in SQLOpenHelper class
- g) Define Content Provider
- h) Mention the import statement for Smsmanager
- i) What is Forward Geocoding
- j) Mention any two methods in MediaPlayerControl
- k) What are the parameters in AudioTrack
- l) What is the syntax for Bluetooth Discoverable?

UNIT I

2. a) Explain Android Application Architecture? 6M
- b) Develop an Android program to print "Hello World" and mention the purpose of SavedInstanceState Object? 6M

(OR)

3. a) Explain the attributes of AndroidManifest.xml 8M
- b) What are the Hardware imposed design considerations 4M

UNIT II

4. a) What is Fragment and Develop an Android program on ListFragment? 6M
- b) Develop an Android program to pass data between activities using Intents 6M

(OR)

5. a) Develop an Android program on saving and restoring activity instance state 8M
- b) Develop an Android program to implement ImageView 4M

UNIT III

6. a) Develop an Android Application for Creating and Running Asynchronous Tasks 8M
- b) Write a short notes on Content Provider 4M

(OR)

7. a) Develop an Android Application for sending E-mail 6M
- b) Write an Android Application on Working in the Background 6M

UNIT IV

8. a) Develop an Android Application to draw basic shapes 8M
- b) Explain how to interpret Sensor values 4M

(OR)

9. a) Develop an Android Application to take picture using Camera 8M
- b) Write sample code for Discovering Remote Devices 6M

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IV/IV B.Tech (Supplementary) DEGREE EXAMINATION

April, 2018

Seventh Semester

Time: Three Hours

Common to CSE & IT

Embedded Systems

Maximum : 60 Marks

Answer Question No.1 compulsorily.

(1X12 = 12 Marks)

Answer ONE question from each unit.

(4X12=48 Marks)

(1X12=12 Marks)

1. Answer all questions
 - a) Give any two applications of an embedded system?
 - b) Define embedded system?
 - c) What do you mean by RT level?
 - d) What is the function of USB?
 - e) What is a state machine?
 - f) What is the purpose of PSMM?
 - g) Give any two examples of real time operating systems?
 - h) Define a semaphore?
 - i) What is the need of event registers?
 - j) What is design technology?
 - k) What do you mean by automation?
 - l) What are the functions of RTOS?

UNIT I

2.
 - a) Discuss the design challenges of an embedded system? 6M
 - b) Explain the concept of pipelining? 6M
- (OR)
3.
 - a) Explain various classifications of processors in detail? 6M
 - b) Discuss sequential logic with an example? 6M

UNIT II

4.
 - a) Write a short note on a) RS 232 b) IEEE 802.11 6M
 - b) Explain a) the need for communication interfaces b) data flow models 6M
- (OR)
5.
 - a) Explain about a) RS422/RS485 b) Blue tooth 6M
 - b) Write a short note on Infrared? 6M

UNIT III

6.
 - a) Explain in detail about tasks and task schedulers? 8M
 - b) Write a brief note on message queues? 4M
- (OR)
7.
 - a) Explain in detail about kernel and its architecture? 6M
 - b) Discuss a) mutex b) pipes and signals c) mail boxes. 6M

UNIT IV

8.
 - a) Explain about RT Linux? 6M
 - b) Differentiate between embedded OS and real time OS? 6M
- (OR)
9.
 - a) Write about behavioural synthesis? 4M
 - b) Explain about a) timers b) memory management and c) logic synthesis. 8M