CS IT 421

Hall Ticket Number:

IV/IV B.Tech (Regular) DEGREE EXAMINATION

March, 2017 **Common for CSE & IT**

Eighth Semester

Industrial Management & Entrepreneurship 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 Define the following (1X12=12 Marks)

a) Define Management.
b) Joint Stock Company.
c) Product Life Cycle.
d) Partnership.
e) 4P's of marketing.
f) Working Capital.
g) Placement.
h) Training.
i) Entrepreneurship.
j) Process Design.
k) Entrepreneurship development programme.
l) Inventory.

UNIT- I

2. Explain the significance and functions of Management.

(OR)

3. What is Sole Proprietorship? Discuss the salient features Sole Proprietorship firm.

UNIT- II

4. Define the term EOQ. What are Ordering and Carrying Costs? What is their role in Inventory control?

(OR)

5. Discuss the different types of production systems?

UNIT- III

6. What do you understand by Human Resource Planning? How do you draw-up a Manpower Plan for an organization.

(OR)

7. Describe in detail the process of Performance Appraisal.

UNIT- IV

8. Describe the entrepreneur. Explain the functions of an Entrepreneur.

(OR)

9. What do you mean by product Design? Explain the various stages involved in deciding the product design of a new product.

CS IT 422

Hall Ticket Number:

IVI/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

MARCH, 2017 **Common for CSE & IT**

Eighth Semester **Data Engineering**

Time: Three Hours **Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12 Marks)

Answer ONE question from each unit. (4X12=48 Marks)

1 Define the following (1X12=12 Marks)

a) Data Ware house.
b) Pre-process
c) Data integration.
d) Prediction
e) Auto-correlation.
f) STING
g) Categorization.
h) Schema
i) DMQL
j) Aggregation
k) Evaluation Analysis.
l) Outlier Analysis

UNIT I

2 a) What motivated towards data mining? Why is it important? 6M

b) What kind of data can be used for data mining? 6M

OR)

3 a) How are organizations using the information from data warehouses? 6M

b) Explain classification of Data mining Systems 6M

UNIT II

4 a) Explain Data Transformation 6M

b) Explain Entropy-Based Discretization. 6M

(OR)

5 a) Explain Data Cleaning as a Process 6M

b) Describe Aprori Algorithm with suitable example. 6M

UNIT III

6 a) Explain about categorization of major clustering methods. 6M

b) Explain about Hierarchical clustering methods 6M

(OR)

7 a) Describe each of the following clustering algorithms in terms of the following criteria: 12M

(i) shapes of clusters that can be determined;
(ii) input parameters that must be specified;
(iii) limitations.

(a) k-means
(b) k-medoids
(c) DBSCAN

UNIT IV

8 a) Explain about basic decision tree induction algorithm. 6M

b) Why is naïve Bayesian classification called "naïve"? Briefly outline the major ideas of naïve Bayesian classification. 6M

(OR)

9 a) Discuss about spatial database mining. 6M

b) Discuss about multimedia database mining. 6M

CS IT 422

Hall Ticket Number:

IVI/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

MARCH, 2017 — **Common for CSE & IT**

Eighth Semester — **Advanced Data Analytics**

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) What is the role of namenode in Hadoop Cluster?
b) What is the default size of HDFS block?
c) Write the URL to access namenode service through web interface in a single node Hadoop cluster.
d) How to run Pig in local execution environment?
e) Write Pig Latin script to find number of records in a relation (table) R.
f) How to display the records in a relation R using Pig Latin statement.
g) Write briefly about map data type in Hive query language.
h) Compare Managed table with External table in Hive.
i) What is schema on read in the context of Hive?
j) What is a Resilient Distributed Dataset (RDD)?
k) Write any one application of Apache Sqoop?
l) How to read and print a text file using Spark framework.

UNIT I

2 a) Describe a typical topology for a fully distributed Hadoop cluster. 3M

b) Write a mapreduce program in Java to find word frequencies in a given set of text files. 9M

OR)

3 a) Describe the important daemon properties used to configure HDFS service. 6M

b) How to configure YARN service? 6M

UNIT II

4 a) Write a Pig Latin script to find maximum temperature in a given year given the weather data with three fields Year, Temperature and Quality Parameter (QP) per record as depicted in Table 1. Discard the records with temperature value 9999 or QP value in {2, 3, 6, 7, 8}. The range of QP is 0 to 9.

Table 1: Weather dataset

Year	Temperature	Quality Parameter (QP)
1950	32	1
1950	22	1
1950	9999	1
1949	41	2
...	...	...

6M

b) Implement an EvalFunc UDF in Pig Latin to trim leading and trailing whitespace from char array values and explain the procedure to call the UDF in a Pig Latin script. 6M

(OR)

5 a) How Pig supports join operations between relations? 6M

b) Write about COGROUP statement in Pig Latin. 6M

UNIT III

6 a) Describe the important properties that are used to configure Hive metastore. 6M

b) Compare different metastore configurations that are possible in Hive. 6M

(OR)

7 a) How table partitioning improves Hive query performance? 6M

b) Write about Hive architecture. 6M

UNIT IV

8 a) How Spark runs a job? 6M

b) Describe the interaction between Spark and Yarn cluster mode 6M

(OR)

9 a) Describe Sqoop import command. 6M

b) How Sqoop export command works? 6M

Hall Ticket Number:

IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

March, 2017 **Computer Science & Engineering**

Eighth Semester **Cyber Security-II**

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. What is metasploit Frame work?
b. Purpose of Information Gathering.
c. Types of password attacks?
d. Need for firewall?
e. Differentiate Virus & Worms?
f. Define Email-Spam?
g. Give some Examples of incidents?
h. What is the Command used for displaying current running processes in UNIX-based systems?
i. What is the use of FTK imager?
j. List out Types of Location based Data Backups?
k. What is 3-2-1 rule?
l. Define Log management?

UNIT I

2.a How to scan live hosts, active ports, types of Operating Systems with Zen map. 6M

2.b What is Veil-evasion? Explain the procedure for how to bypass windows Anti-virus with veil-evasion? 6M

(OR)

3.a Discuss the Procedure for how to hack the target system by using pass the hash method. Write the purpose for key scan? 8M

3.b Write short notes on Online password attacks with some examples. 4M

UNIT II

4.a State the purpose of snort tool? Explain Installation procedure for snort and parts of rule? Write the rule for alerting incoming ping requests from any source to any destination IP Addresses and Ports? 8M

4.b Differentiate ClamAv and Clamtk and write the commands for identifying & removing virus files by using ClamAv? 4M

(OR)

5.a What is web application security? Explain Different types of web application attacks. Write the procedure for detecting SQL injection attack by using mod-security tool? 8M

5.b Explain the installation & Configuration procedure for mail scanner? 4M

UNIT III

6.a Discuss IR Methodologies based on Procedures. 6M

6.b How to investigate the Unix based systems based on the Artifacts. 6M

(OR)

7.a Why we need FTK imager? Explain the procedure for how to create the disk image and recovering the permanent deleted files/images by using FTK imager. 6M

7.b What is incident and incident Response? Explain the needs and goals of IR 6M

UNIT IV

8.a What are the different types of storage devices? Give advantages and disadvantages? 6M

8.b What is the need of rsync tool? Explain the options of rsync tool. Write the commands for copying files to local systems and remote systems. 6M

(OR)

9.a What is Log.? Explain the uses of Logs and types of Logs? How to install and configure Log watch Tool in to system? 6M

9.b Explain about Log management Infrastructure Tiers and functionalities of Log management Infrastructure. 6M

CS/IT 423

Hall Ticket Number:

IV/ IV B.Tech (Regular) DEGREE EXAMINATION
March, 2017
(Eighth Semester)
Wireless Networks
(Common to CSE / IT)

Time: Three Hours **Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12 Marks)

Answer ONE question from each unit. (4X12=48)

1. Define the following: (12X1=12 Marks)

a) Write any two applications of wireless networks.
b) Explain the GSM?
c) Illustrate about singnals?
d) Acronym of CSMA/CD?
e) Describe the Protocols?
f) Define briefly about GPRS?
g) Define Routing?
h) Express the functionality of digital video broadcasting?
i) What is meant by Roaming?
j) State HYPERLAN?
k) Distinguish between Tunneling and Encapsulation?
l) Define wireless datagram protocol?

UNIT I

2. Illustrate the importance of multiplexing briefly? (12M)

(OR)

3. Demonstrate the importance of the modulation briefly. (12M)

UNIT II

4. a) Explain GSM system architecture with neat diagrams (7M)
b) Describe the importance of protocols in telecommunication systems. (5M)

(OR)

5. a) Write a short notes on LEO and MEO? (6M)
b) Explain the Digital Audio Broadcasting frame structure? (6M)

UNIT III

6. Explain IEEE 802.11 system architecture and protocol architecture. (12M)

(OR)

7. a) Write short notes on infrastructure and ad hoc networks. (7M)
b) Write the importance of Bluetooth in Wireless LAN. (5M)

UNIT IV

8. a) Explain traditional TCP methods. (6M)
b) Explain the Indirect TCP thoroughly. (6M)

(OR)

9. a) Wireless datagram Protocol. (6M)
b) Explain wireless application protocol architecture with neat diagrams. (6M)

CS/IT 424(E)

Hall Ticket Number:

IV/IV B.Tech (Regular/Supplementary) DEGREE EXAMINATION

April, 2017 **Common for CSE & IT**

Eighth Semester **Software Testing Methodologies**

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) Write two Goals of Testing.
b) Difference between quality assurance and quality control.
c) What is Static Testing?
d) What is beta testing?
e) List test cases for acceptance testing.
f) Write various functional Performance Tools.
g) What is meant by Pair Testing?
h) Write various categories of organizations.
i) Responsibility of Usability test engineer.
j) Write requirements for Test Tools.
k) Write necessity of Software Automation.
l) Uses of Metrics and Measurements.

UNIT I

2 a) How defects from early phases add to the cost? Explain with relevant figure. 6M
b) Describe the phases of software project. 6M

(OR)

3 a) Describe Code Coverage Testing in detail. 6M
b) Why Black Box Testing? Explain. 6M

UNIT II

4 a) Explain Scenario Testing in detail. 6M
b) Explain Non-Functional Testing in detail. 6M

(OR)

5 a) Explain a methodology for performance testing in detail. 6M
b) How to do regression testing? Explain in detail. 6M

UNIT III

6 a) Explain Exploratory Testing in detail. 6M
b) Describe Accessibility Testing in detail. 6M

(OR)

7 a) Describe comparison between testing and development functions. 6M
b) Explain structures for Multi-Product companies in detail. 6M

UNIT IV

8 a) Describe Test Management. 6M
b) Write short notes on Test Execution and Reporting. 6M

(OR)

9 a) Describe Process Model for Automation. 6M
b) Explain Metrics on Productivity. 6M