Code No.: 305B3

MR13

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad.

IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2017

SUBJECT: **MOBILE COMPUTING**

(BRANCH: **CSE**)

Time: **3 Hours** Max Marks:75

PART-A

I. Answer all the questions **5 x1=5M**

1. What is Base Transceiver station .
2. Define COA .
3. Define fast retransmit?
4. What is Broadcast addressing?
5. For what purpose WAP browser is used in smart phones

II Answer all the questions **10 x 2=20M**

1. Mention various types of calls in GSM
2. Differentiate between Mobile Computing and Wireless Networking?
3. Write about the requirements of Mobile IP.
4. What is tunneling?
5. What is Transmission/time-out freezing
6. Explain mobile TCP with a neat sketch?
7. What is communication asymmetry
8. What are the application of MANETS?
9. Explain how a Bluetooth device can save battery power?
10. Define Bluetooth.

PART-B

Answer all the questions **5 x 10=50M**

1. a) Explain the Architecture of mobile Computing **[6M]**
   b) What do you mean by Near-Far terminal Problem? **[4M]**

(OR)

2. a) What are the reasons for delays in GSM for packet data traffic? **[3M]**
   b) Name the main elements of GSM System architecture and describe their functions. What are the advantages specifying not only the radio interface but also all internal interfaces of the GSM system? **[7M]**

3. With neat sketch explain the following i) SDMA ii) FDMA **[5 +5]**

(OR)

4.a) Explain the following with respect to mobile IP
i) IP Packet delivery ii) Agent Discovery iii) Registration **[6M]**
b) Discuss how optimization is achieved in mobile IP. **[4M]**

5. a) Explain about Traditional TCP. **[6M]**
b) Explain about Transaction oriented TCP. **[4M]**

(OR)

6. Explain about N-Tier Client-Server architecture. **[10M]**

7. a) Explain the Dynamic Source routing in MANET's? **[5M]**
b) Explain how Indirect TCP overcomes the problems associated with conventional TCP in mobile Environment **[5M]**

(OR)

8. a) Write the properties of Ad-hoc networks? **[5M]**
b) Explain Dynamic source routing with examples **[5M]**

9. a) Explain the working of AODV routing protocol. **[5M]**
b) Discuss important characteristics of digital video broadcasting **[5M]**

(OR)

10. a) What are the functions of WAE, explain? [4M]

b) In order to save battery power, a Bluetooth device can go into three low power states, what are they? Explain. [6M]

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IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, OCTOBER - 2017

SUBJECT: **DATA WAREHOUSING AND DATA MINING**

(BRANCH: **CSE**)

Time: **3 Hours** Max Marks: **75 Marks**

PART-A

I. Answer all the questions **5 x1=5M**

1. Define descriptive task.
2. Define spatial mining.
3. Discuss classification and prediction.
4. Discuss the concept of clustering.
5. Define multimedia.

II Answer all the questions **10 x 2=20M**

1. Outline some challenges to data mining regarding performance issues
2. List out various stages of KDD process.
3. Demonstrate the use of a data cube with a neat diagram.
4. How is a data warehouse different from a database?
5. Define Association Rule Mining.
6. Mention few approaches to mining Multilevel Association Rules.
7. Explain some areas in which clustering techniques are used?
8. Define nominal, ordinal and ratio scaled variables?
9. Explicate statistical data mining.
10. What kind of data is stored in spatial database and how it is stored?

PART-B

Answer all the questions **5 x 10=50M**

1. Illustrate data mining functionalities [10M]

OR

2. a) How to integrate a data mining system with a data base or data ware house. [5M]
   b) Draw and explain the architecture of typical data mining system [5M]
3. Illustrate OLAP operations on a data cube in multidimensional data modeling. [10M]

OR

4. Briefly explain with example the different schemas for multidimensional data bases. [10M]
5. Explain FP- Growth algorithm for finding Frequent Item sets without using Candidate Generation. [10M]

OR

6. State and explain back propagation algorithm for classification or prediction with example. [10M]
7. (a) Define Clustering, What are the categories of major clustering methods? Explain. [6M]
   (b) Explain in detail about outlier analysis. [4M]

OR

8. Explain in detail about CLIQUE and PROCLUS Clustering Methods. [10M]
9. a) How to mine Multimedia databases? Explain. [5M]
   (b) Define web mining. What are the observations made in mining the WEB for effective resource and knowledge discovery? [5M]

OR

10. Explain the applications of data mining. [10M]

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IVB.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER - 2017

SUBJECT: **CLOUD COMPUTING**
(BRANCH: **CSE**)

Time: **3 Hours** Max Marks:**75**

PART-A

I. Answer all the questions **5 x1=5M**

1. What is meant by distrubted processing?
2. Define Web services.
3. Define federation scenario.
4. What is zoho?
5. Define Google Web Tool Kit.

II Answer all the questions **10 x 2=20M**

1. Write about cloud service life cycle.
2. Write about Virtualization.
3. List out the challenges in cloud.
4. Explain in brief about public cloud and infrastructure services.
5. Write about the Federation in the cloud.
6. What is significance of standards for messaging?
7. Write the advantages of Dim software.
8. Write about smart phones.
9. List the usage of CRM applications.
10. Explain windows live.

PART-B

Answer all the questions **5 x 10=50M**

1 .a) Explain the system models for distributed and cloud computing. [5+5]
b) Explain the infrastructure of grid computing in detail.

OR

2. a) Write brief note on parallel computing. [5+5]
b) Explain about computer clusters.
3. a) Explain the benefits of cloud models.
b) Discuss the key characteristics of cloud computing. [5+5]

OR

4. What is Cloud Computing? Enlist and explain three service models, and four deployment models of cloud computing. [10]
5. Describe about 4 types of federations. [10]

OR

6. a) Briefly discuss about the open cloud consortium.
b) Explain with an example Software-as-a-service security in cloud computing. [5+5]
7. a) Describe various mobile operating systems for smart phones.
b) Explain the advantages of virtualization. [5+5]

OR

8. Explain about the Mobile operating systems for smart phones. [10]
9. Explain about adding guest Operating system. [10]

OR

10. a) Explain about Amazon simple DB.
b) Write short notes on Google App Engine. [5+5]