R-11/R-13

Code : 1G171

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017
Data Warehousing and Mining
(Computer Science & Engineering)

Max. Marks: 70   **Time: 03 Hours**

*Answer any **five** questions*
All Questions carry equal marks (**14 Marks** each)
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1.	List and explain various challenges in data mining.	14M
2.	Discuss about the typical OLAP operations on multidimensional data with an example.	14M
3.	Explain the various data models for the data warehouse.	14M
4. a)	Describe the transformation of a data mining query to a relational query.	7M
b)	What are the various methods for expressing attribute test conditions	7M
5.	Explain Bayesian belief networks with an example	14M
6.	Explain the tree representation and item set generation in FP growth algorithm	14M
7.	What are three different web mining techniques? Explain with example.	14M
8.	Explain the basic Agglomerative hierarchical clustering algorithm with neat diagrams	14M

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R-11 / R-13

Code: 1G174

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017
High Performance Computing
(Computer Science and Engineering)

Max. Marks: 70   Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)
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1.	a)	Define HPC? List its advantages.	4M
	b)	Explain security issues in Distributed Computing?	10M
2.	a)	What is Parallel Computing? Give example.	4M
	b)	Explain about complexity measures in Parallel computing?	10M
3.		Explain the importance of different Attributes of clusters.	14M
4.		Briefly explain differences between Grid Computing and Cloud Computing?	14M
5.	a)	What is the need of web services? Explain.	5M
	b)	Distinguish between SOAP and REST with suitable diagram?	9M
6.		Define OGSA? Why we need to provide security to it? List and explain the security issues of the same.	14M
7.	a)	List out Advantages and disadvantages of GLOBUS GT3?	4M
	b)	Explain about Grid Services Container in GLOBUS GT3?	10M
8.	a)	What is OGSI?	3M
	b)	Explain about Hosting Environment in GLOBUS GT3?	11M

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Code: 1G472

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017
Mobile Communications
(Common to CSE & IT)

Max. Marks: 70　　　　　　　　　　　　　　　　　　　　　　Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)
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1. a) Which types of different services does GSM offer? Give some examples and reasons why these services have been separated. 　7M

   b) Explain any two handover scenarios in detail. 　7M

2. a) Which of the MAC schemes can give hard guarantees related to bandwidth and access delay? Explain. 　7M

   b) How does the near/far effect influence TDMA systems? What happens in CDMA systems? 　7M

3. a) List the entities of mobile IP and describe data transfer from a mobile node to a fixed node. Why and where encapsulation needed. 　7M

   b) What is the basic purpose of DHCP? Name the entities of DHCP. 　7M

4. a) What is tunneling? Explain IP-in-IP packet format with neat block diagram. 　7M

   b) Explain mobile node registration process in detail. 　7M

5. List the characteristics specific to adhoc networks and explain any two application scenarios. 　14M

6. a) If Bluetooth is a commercial success, What are remaining reasons for the use of infrared transition of WLANs? 　7M

   b) Explain the architecture of Wireless Application Protocol. 　7M

7. a) Distinguish power-aware and context-aware computing. 　7M

   b) Explain recovery and quality service issues. 　7M

8. Explain in detail about push-based and pull-based mechanisms. 　14M

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IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017
Management Science
(Common to EEE & CSE)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (**14 Marks** each)

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1. Expand term referring to functions of management in "POSDCORB" and discuss any three function of management in brief termed in the above abbreviation. **14M**

2. a) Explain the objectives of plant layout. **6M**

   b) What are the merits and demerits of centralized and decentralized purchase.in an organization? **8M**

3. Discuss stages of product life cycle? Explain in brief the emphasis of marketing vary at various stages of product life cycle. **14M**

4. a) What is the importance of managing human resource in an organization? **6M**

   b) Discuss any two of the following
      i. Wage and Salary administration
      ii. Performance appraisal
      iii. Grievance Handling **8M**

5. A small project consists of the following activities with time as estimates as given below:

Predecessor Event – Successor Event (i-j)	Estimated duration (in months)		
	Optimistic	Most likely	Pessimistic
1-2	2	2	14
1-3	2	8	14
1-4	4	4	16
2-5	2	2	2
3-5	4	10	28
4-6	4	10	16
5-6	6	12	30

   i. Draw a network
   ii. Calculate average expected time for each activity
   iii. Calculate the earliest expected time and latest allowable occurrence time for each event
   iv. Determine the critical path **14M**

6. a) What are elements of corporate planning process? **5M**

   b) Discuss essential steps (outline) in corporate planning through a flowchart. **9M**

7. a) What is the role of Management Information System in an organization? **6M**

   b) Discuss in brief any two of the approaches:
      i. Just-in-Time
      ii. Value Analysis **8M**

8. a) Explain the relationship between ethics and an organization **7M**
   b) Discuss three general normative ethical theory in brief **7M**

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Code: 1G172

IV B.Tech. I Semester Supplementary Examinations Nov/Dec 2017
Open Systems for Web technologies
(Computer Science and Engineering)

Max. Marks: 70   Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks each**)
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1.	a)	Write about WAMP web server installation procedure.	7M
	b)	Write differences between HTTP Request and Response.	7M
2.	a)	What are the limitations of servlets? How JSP overcomes these problems.	8M
	b)	Write short notes on anatomy of a PHP page.	6M
3.		Explain about various control statements in PHP with examples.	14M
4.	a)	Explain about scope resolution operator in PHP with suitable program.	10M
	b)	Write differences between abstract class and interface.	4M
5.	a)	Write short notes on the following	
		i) Cookies ii) Sessions	8M
	b)	Write short notes on authentication process in PHP.	6M
6.	a)	Explain about super global variables in PHP.	7M
	b)	Explain about GET and POST methods with examples.	7M
7.	a)	Write a PHP code to insert record into the table in MySQL database.	8M
	b)	Write short notes on MVC architecture.	6M
8.	a)	What are the benefits of XML? How it is differ from HTML.	7M
	b)	What are the differences between AJAX and PHP?	7M

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