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R-11 / R-13

Code : 1GA71

IV B.Tech. I Semester Regular & Supplementary Examinations Nov 2016

Management Science

(Common to EEE & CSE)

Max. Marks: 70

Time: 03 Hours

Answer any five questions

All Questions carry equal marks (14 Marks each)

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 8M
 - i. Wage and Salary administration
 - ii. Performance appraisal
 - iii. Grievance Handling
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: 8M
 - i. Just-in-Time
 - ii. Value Analysis
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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R-11 / R13

Code: 1G172

IV B.Tech. I Semester Regular & Supplementary Examinations Nov 2016

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)

- 1. What are different types of web servers? Discuss briefly. 14M

- 2. a) What makes PHP a choice among the other scripting languages? 7M
b) What is the difference between PHP and HTML? 7M

- 3. a) Write a PHP program that uses all the data types? 7M
b) How to control script execution? Explain with example. 7M

- 4. a) Write a PHP program to explain the use of inheritance. 7M
b) Explain the principles of object oriented programming. 7M

- 5. a) Briefly explain different parameters available when setting a cookie. 7M
b) Explain with an example, how storing of simple data types is done in sessions? 7M

- 6. How can we prevent multiple submissions of a form on server side? Explain with example? 14M

- 7. a) Explain the function used to connect to a MySQL database? 7M
b) How to perform a query in PHP? Explain with PHP code. 7M

- 8. What are the advantages of AJAX? Write an AJAX PHP script to demonstrate how a web page can communicate with a web server while a user type characters in an input field. 14M

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R-11/R-13

Code: 1G173

IV B.Tech. I Semester Regular & Supplementary Examinations November 2016

Software Project management
(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions
All questions carry equal marks (**14 Marks** each)

1. a) What is the waterfall model? Write five necessary improvements for this approach to work 7M
b) Discuss the troubles frequently exhibited in the conventional software management approach. 7M
2. a) What are the important trends to improve the software economics? 7M
b) What are the key processes that improve the overall software quality? 7M
3. a) What are the principles of modern software management? 7M
b) What are the principles of conventional software management? 7M
4. a) Discuss the artifacts of Management set. 7M
b) Discuss the artifacts of the requirement set. 7M
5. a) Write short notes on status assessments. 7M
b) Write short notes on Work Breakdown Structures. 7M
6. a) What are the four component teams in a default project organization and their responsibility? 7M
b) How does the emphasis in the four teams evolve over the course of the entire project? 7M
7. a) What are the management indicators? 7M
b) What are the Quality indicators? 7M
8. a) Discuss the next generation cost models of the production stage. 7M
b) Discuss any six of top 10 software management principles. 7M

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R-11/R-13

Code: 1G171

IV B.Tech. I Semester Regular & Supplementary Examinations Nov 2016

Data Warehousing and Mining
(*Computer Science & Engineering*)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (**14 Marks** each)

- 1. a) Explain the various data mining tasks 7M
b) What are the various factors affecting the data quality 7M

- 2. Explain the various entities related to summary statistics 14M

- 3. a) Explain the various OLAP operations of data warehouse 7M
b) Illustrate the indexing of OLAP data 7M

- 4. a) What are the various measures for selecting the best split 7M
b) Explain the process of building a decision tree 7M

- 5. Explain naïve bayes classifier with an example 14M

- 6. a) Define support and confidence with example 7M
b) Explain the frequent itemset generation in the Apriori algorithm 7M

- 7. Explain the basic K-means algorithm with an example 14M

- 8. Explain the DBSCAN algorithm with neat diagrams 14M

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R-13 / R-11

Code: 1G472

IV B.Tech. I Semester Regular & Supplementary Examinations November 2016

Mobile Communications

(Common to CSE & IT)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

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

1. a) Explain the security services of GSM 7M
b) What is the advantages of GPRS over GSM? Also explain the architecture of GPRS. 7M
2. a) Explain clearly the various schemes for medium access control with TDMA. 7M
b) What is CDMA? Explain about FDMA,TDMA mechanisms. 7M
3. a) Write a detailed note on Mobile IP protocol 6M
b) Briefly explain DHCP client initialization procedure. 8M
4. a) Discuss in detail about Snooping TCP, its advantages and disadvantages. 7M
b) Write brief note on Fast Retransmit/Fast Recovery. 7M
5. a) Discuss the properties of MANETS? 6M
b) How routing is done in MANETS? Briefly describe various routing algorithms? 8M
6. a) Explain WAP model and WAP Gateway in detail. 8M
b) Describe about Bluetooth user scenarios 6M
7. a) Illustrate power-aware and context-aware computing? 7M
b) Explain Recovery and quality of service issues in terms database. 7M
8. a) Define communication symmetry? Explain with suitable examples? 7M
b) Differentiate between push-based and pull-based mechanisms? 7M

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R-11/R13

Code: 1G175

IV B.Tech. I Semester Regular & Supplementary Examinations Nov 2016

Advanced Computer Architecture

(Computer Science and Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (14 Marks each)

1. a) Explain in detail about three Shared multiprocessor models?
b) List out the variants involved in PRAM?
2. Draw and explain the various network topologies in static and dynamic connection networks?
3. a) Draw and explain the differences between CISC and RISC architectures?
b) Differentiate between Implicit and Explicit parallelism?
4. Explain in detail about Snoopy bus protocol?
5. a) Draw and explain the three Vector-Access memory schemes?
b) Discuss in detail about Virtual channels?
6. a) Explain in detail about five tuple based SIMD machine model?
b) Draw and explain the structure of Distributed shared memory?
7. a) List out the steps involved in performing multithreaded computations?
b) Write short notes on Hyper transport and PCI?
8. Draw and explain the structure of CM-2 Network architecture?

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Code: 1G174

IV B.Tech. I Semester Regular & Supplementary Examinations November 2016

High Performance Computing
(Computer Science & Engineering)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions
All Questions carry equal marks (14 Marks each)

1. a) Discuss the strengths and weaknesses of distributed computing. 7M
- b) Discuss the paradigms for distributed applications. 7M

2. List and explain parallel programming paradigms. 14M

3. Explain cluster architecture in detail. 14M

4. Identify the grid computing road map. 14M

5. Explain Web Services architecture in detail. 14M

6. Explain Open Grid Service Infrastructure in detail. 14M

7. Describe the Globus GT3 toolkit programming model. 14M

8. Outline OGSI.NET frame work implementation. 14M
