

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015  
**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. a) Discuss various types of Organization Structures. 7M  
b) Explain the functions of management 7M
2. a) What is Statistical Quality Control, and explain use of X Chart, R Chart, C and p chart. 8M  
b) Discuss selective inventory control of ABC Analysis 6M
3. a) Describe Product Life Cycle, and what is its significance 7M  
b) Explain the New Product Development Process 7M
4. a) Discuss the basic functions of HR Manager 7M  
b) Discuss the role of Recruitment Selection, Training and Development, for enterprise growth. 7M
5. The following table gives the activities in construction project and time duration.

Activity	Preceding activity	Normal time(days)
1-2	--	20
1-2	-	25
2-3	1-2	10
2-4	1-2	12
3-4	1-3,2-3	05
4-5	2-4,3-4	12

- a) Draw activity network of project. 6M
- b) Find the total float and free float for each activity. 4M
- c) Determine the critical path and project duration. 4M
6. a) Discuss on Mission, Goals, Objectives, Policy, Strategy, Programs in corporate planning 7M  
b) Discuss on SWOT Analysis 7M
7. a) What is Enterprise Resource Planning (ERP),how it enhances productivity 7M  
b) Discuss on Total Quality Management (TQM) 7M
8. a) Discuss Ethical Issues In Operations Management 7M  
b) Discuss Normative Ethical Theories on Egoism, Utilitarianism and Altruism 7M

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Hall Ticket Number :

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**Code : 1G175**

**R-11**

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

***Advanced Computer Architecture***

*(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. a) Explain in detail about Flynn's classification?  
b) Discuss in brief about conditions of parallelism?
2. Draw and Explain the various network topologies in static and dynamic connection network
3. a) Explain in detail about backplane bus?  
b) List out the levels involved in Memory hierarchy?
4. Explain in detail about Cache coherence problem?
5. a) Differentiate between Store-forward and Wormhole Routing?  
b) Discuss in detail about Virtual channels?
6. a) Explain in detail about Tomasulo's algorithm?  
b) Draw and explain the structure of Distributed shared memory?
7. a) Draw and explain the various Vector instruction types?  
b) Explain in detail about Storage technology?
8. Draw and explain the structure of CM-5 Network architecture?

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Code : 1G171

IV B.Tech. I Semester Regular &amp; Supplementary Examinations Nov/Dec 2015

**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. a) Define Predictive tasks and Descriptive tasks. 5M  
b) Explain about different types of Attributes and their description. 9M
2. a) How do you measure the data quality? Explain in detail. 7M  
b) What are the methods used for dimensionality reduction? 7M
3. a) How data in the Data Warehouse is stored? What are the various OLAP operation that can be performed on the Data warehouse data? 7M  
b) Is discovery driven approach is better than hypothesis driven approach? Justify. Explain about the discovery driven approach. 7M
4. a) Write an algorithm for decision tree induction. 8M  
b) Explain about  
i.) Bootstrap    ii.) Cross – validation    iii.) holdout Method 6M
5. a) Explain the Bayesian Classification method with suitable example. 7M  
b) Explain about Bagging and Boosting. 7M
6. a) Suppose the data contain the frequent item set  $I=\{I_1, I_2, I_5\}$ . What are the association rules that can be generated from 'I'. Consider confidence = 60 %  
Transactional data

Sl.No	TID	List of item IDs
1	T100	I1, I2, I5
2	T200	I2, I4
3	T300	I2, I3
4	T400	I1, I2, I4
5	T500	I1, I3
6	T600	I2, I3
7	T700	I1, I3
8	T800	I1, I2, I3, I5
9	T900	I1, I2, I3

- b) What is Apriori's Principle? How rules are generated in Apriori algorithm. 7M
7. a) What are the different types of clusters Explain? 7M  
b) Explain about Bisecting K-means algorithm. 7M
8. a) Draw a dendrogram for the given data (Similarity matrix) using single and complete link for hierarchical clustering.

	P1	P2	P3	P4	P5
P1	1.0	0.10	0.41	0.55	0.35
P2	0.10	1.00	0.64	0.47	0.98
P3	0.41	0.64	1.00	0.44	0.85
P4	0.55	0.47	0.44	1.0	0.76
P5	0.35	0.98	0.85	0.76	1.0

- b) Compare K-means and DB Scan. Which is superior justify? 7M

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Code : 1G472

R-11

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

**Mobile Communications**

( Common to CSE & IT )

Max. Marks: 70

Time: 03 Hours

Answer any five questions

All Questions carry equal marks (14 Marks each)

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1. a) Explain how the various location dependent services can be offered using mobile communication. 7M  
b) What kind of security and new data services are available in GSM? 7M
2. a) Explain Time Division Multiplexing with neat diagrams 7M  
b) What is Code Division Multiplexing and explain how the multiplexing is incorporated in it. 7M
3. a) Explain how Dynamic Host Configuration Protocol is working. 7M  
b) Describe how the packet delivery is happening in a mobile network. 7M
4. a) What is snooping TCP? What are its advantages and disadvantages? 7M  
b) Explain Indirect TCP along with its pros and cons. 7M
5. a) Explain any 2 protocols that are frequently used in MANET. 7M  
b) List the various difficulties faced while routing packets in MANET 7M
6. a) Explain the structure of the Bluetooth packet format in detail 7M  
b) What is J2ME? How is it different from J2SE? 7M
7. a) Write a note on transactional models. 7M  
b) Narrate the various quality of service issues faced in databases. 7M
8. a) Explain some of the widely used indexing mechanisms 7M  
b) Elaborate how push and pull based mechanisms are working 7M

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**Code : 1G172**

<b>R-11</b>
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IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015  
***Open Systems for Web Technologies***  
*(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. a) How to handle HTTP requests and response? Explain in detail. 7M  
b) What is the difference between application server and web server? Explain. 7M
- 2. a) Discuss the structure of a PHP page. Where can we use PHP scripts? 7M  
b) What are the disadvantages of servlets over JSP? 7M
- 3. a) Explain about PHP variables with suitable examples. 7M  
b) How to define constants in PHP? Explain with an example. 7M
- 4. a) Explain how instances can be created using constructors? 7M  
b) Write a PHP program to create a counter using files. 7M
- 5. a) Explain briefly how to use the header ( ) function in different ways. 6M  
b) Explain the following functions with examples.
  - (i) date\_sunrise()
  - (ii) gmmktime()8M
- 6. a) Write a program to differentiate GET and POST methods? 7M  
b) What are the disadvantages of redisplaying forms without previous information and error messages? 7M
- 7. a) Write PHP code to connect to a MySQL database. 7M  
b) Briefly explain about the MVC Architecture. 7M
- 8. What is Simple XML? Explain different functions available in Simple XML to parse and to load XML documents. 14M

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**Code : 1G173**

**R-11**

IV B.Tech. I Semester Regular & Supplementary Examinations Nov/Dec 2015

***Software Project Management***

*( 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. a) Explain with neat sketch the water fall model. 7M  
b) State and comment the questions from Boehm's top 10 list. 7M
2. a) Discover the steps to be followed, to improve the Team Effectiveness 7M  
b) Justify how automation through software environment makes the difference 7M
3. a) Summarize the principles of Modern Software Management with neat diagrams. 10M  
b) Identify the primary objectives and estimated activities of Inception Phase. 4M
4. a) Discuss in detail about Management Artifacts. 10M  
b) List and explain various UML Diagrams to be used for representing Engineering Models and Architectural Views. 4M
5. a) Explain Software Process Workflows 7M  
b) What are the goals of Life Cycle Architecture Milestone and when it occurs? 7M
6. a) Explain how Roles and Responsibilities gets mapped in the Line of Business Organization. 7M  
b) Explain typical Automation and Tool components that support the process work flows. 7M
7. a) Explain Four Quality Indicators. 7M  
b) Explain the two primary dimensions of Process Variability. 7M
8. a) Explain top 10 Software Management Principles 7M  
b) Illustrate CCPDS-R Life Cycle Overview 7M

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