III B.Tech. II Semester Supplementary Examinations Nov/Dec 2016
Managerial Economics and Financial Analysis
(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. Define managerial economics. Explain its nature and scope   14M

2. Explain briefly about the various methods of forecasting demand.   14M

3. Explain briefly about Iso-quants and Iso-cost curves.   14M

4. a) Explain about cost based pricing methods.   7M
   b) Write about market penetration and two parts pricing method.   7M

5. Explain the features, merits and limitations of joint stock company.   14M

6. Explain the Payback period and ARR methods of capital budgeting.   14M

7. From the following extract of trial balance, from the books of Kamal, for the year ending December 31, 2002, prepare a trading account.

Trial Balance as on December 31, 2002

	Rs.	Rs.
Sales		3,25,00
Purchases	2,40,000	
Freight	5,000	
Sales returns	5,000	
Purchase returns		5,600
Wages	40,000	
Salaries	20,000	
Carriage inwards	10,000	
Opening stock (1.1.2002)	25,000	

Adjustments: Stock as on 31.12.2002 was Rs. 40,000   14M

8. What is meant by Ratio Analysis? Explain briefly about various methods of Ratio Analysis.   14M

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Code : 1G162

III B.Tech. II Semester Supplementary Examinations Nov/Dec 2016
Cryptography and Network Security
(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 different types of security services?	7M
	b)	Explain how the network level session attacks are done with TCP and UDP sessions?	7M
2.	a)	What are the various key distribution approaches for message authentication?	9M
	b)	Explain the process of generating pseudo random numbers using hash functions and MAC?	5M
3.	a)	Explain RSA algorithm?	9M
	b)	Discuss the threats associated with Digital Signature Scheme?	5M
4.		How is PGP used to provide Email privacy?	14M
5.	a)	What are the applications of IPSec?	5M
	b)	Explain the different approaches to combine Security Associations?	9M
6.	a)	Explain SSL architecture with a neat sketch?	9M
	b)	Mention the differences between SSL and TLS?	5M
7.	a)	What are the different techniques used by intruder?	5M
	b)	Explain virus and other related threats?	9M
8.		Explain intrusion detection systems?	14M

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III B.Tech. II Semester Supplementary Examinations Nov/Dec 2016
Linux Programming
(Computer Science and 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) Write about grep and Awk commands with example.   10M

   b) Discuss about Text processing Utilities.   4M

2. a) Write a Shell Program to generate Fibonacci sequence up to a given number.   7M

   b) Write about Shell meta characters and responsibilities.   7M

3. a) Write about Standard I/O and Formatted I/O functions in C.   8M

   b) Distinguish Symbolic Links and Hard Links.   6M

4. a) Explain the following functions with example

   (i)Kill   (ii) Raise   (iii) Abort (iv) sleep   8M

   b) Discuss about Zombie process.   6M

5. Write short notes on the following

   (a) Pipes
   (b) FIFO's
   (c) Shared Memory   14M

6. a) Discuss about kernel support for Semaphores.   7M

   b) Distinguish Unix System Vs API's for Shared Memory.   7M

7. a) Write about Thread Structure and their uses.   7M

   b) Explain about thread Synchronization with semaphores.   7M

8. Explain in detail about Socket System calls for Connection Oriented Protocol and Connection less Protocol.   14M

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III B.Tech. II Semester Supplementary Examinations Nov/Dec 2016
Object Oriented Analysis and Design
(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)	Define UML. Explain the artifacts of a Software Intensive System.	8M
	b)	Discuss four kinds of things in the UML.	6M
2.	a)	Explain four adornments that apply to associations. Discuss behavioral diagrams.	6M
	b)	Discuss Behavioral diagrams.	8M
3.	a)	Explain different Classifiers and their pictorial representations in UML.	8M
	b)	Discuss three levels of visibility in UML.	6M
4.		Briefly explain about Modeling techniques in interaction Modeling.	14M
5.	a)	Discuss the utility of use case diagram.	6M
	b)	Draw and use case diagram for a typical railways reservation system.	8M
6.	a)	What are State Machines?	7M
	b)	Define the components of Advanced behavioral Modeling.	7M
7.	a)	Differentiate between components and classes. Explain with an example.	7M
	b)	Define processor and device. How do you model processor and devices.	7M
8.	a)	Draw the use case diagram for the library system and explain relationships.	6M
	b)	What are the packages in the library system? Explain.	8M

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III B.Tech. II Semester Supplementary Examinations Nov/Dec 2016
Software Engineering
(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) What is Software Crisis? Justify the statement "Software doesn't ware out".   7M
   b) Discuss about different Software Applications.   7M

2.   Define Life Cycle. Discuss about different constraints plays crucial role in choosing a life cycle model for application development, also discuss about the merits and demerits among them.   14M

3. a) What is Use Case? Discuss about the importance of Use Cases in Software Engineering?   7M
   b) Define State Diagram. Construct a State Model for Chess Game Application.   7M

4. a) Discuss about need for modularization of Software Application.   7M
   b) Explain about four major elements appear in design model   7M

5. a) "The more coupling in the software architecture yields to ambiguity", why?   4M
   b) Discuss about Coupling and Cohesion for a software application.   10

6. a) Discuss, how the cyclometric complexity is measured? Give an example   7M
   b) Discuss about Equivalence Class Partitioning Approach for Software Testing.   7M

7.   Why the Software Quality is important? Discuss about different metrics used to measure the quality of Software.   14M

8. a) Explain about the activities of SQA.   7M
   b) What is Software Reliability? Discuss about process to measure the reliability of Software.   7M

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