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R-11**Code : 1GA61**

III B.Tech. II Semester Supplementary Examinations December 2015

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)

1. Explain five important basic principles of Economics. 14M
2. Define Demand and explain its determinants. Describe the various types of Demand. 14M
3. Write short notes on Iso-Quant, Iso-Cost curves, MRTS and Least Cost Combination of Inputs with graphical representations. 14M
4. Explain how the price is determined in case of monopoly in long run and short run. Illustrate with examples. 14M
5. Differentiate the Public and Private enterprises. 14M
6. A Company has two proposals X & Y which would require an initial investment of Rs. 23,742 & Rs. 20,136 respectively. The cash flows of the two proposals are:

Year	1	2	3	4
Proposal X (Rs.)	20,000	4,000	2,000	2,000
Proposal Y(Rs.)	2,000	4,000	4,000	20,000

Which of these two proposals should be selected by using the NPV method? Assume the cost of capital @ 8% 14M
7. What do you understand by Double entry book keeping? Show the adjustments for closing stock, depreciation, bad debts and outstanding expenses by assuming values. 14M
8. From the following information of ABC Ltd. You are required to calculate the following ratios. i) Gross Profit Percent ii) Net Profit Percent iii) Quick Asset Ratio iv) Debtors Collection Period v) Stock Turnover Ratio vi) Current Ratio

Particulars	Rs.	Particulars	Rs.
Sales for the year	3,100	Retained earnings	240
Gross Profit	1,725	12% Debentures	700
Expenses	805	Creditors	620
Depreciation	250	Proposed Dividends	45
Share Capital	450	Fixed assets net after depreciation	875
Depreciation Stocks	310	Debtors	770
Bank Balance	100	Prepaid Expenses	500

14M

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Code : 1G162

III B.Tech. II Semester Supplementary Examinations December 2015

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)

- 1. a) Discuss specific security mechanisms. 7M
- b) Explain man-in-the- middle attack. 7M

- 2. a) Explain cipher block chaining mode in detail. 7M
- b) Write short notes on secure hash functions. 7M

- 3. a) Discuss the principle elements of public key crypto systems. 7M
- b) Write short notes on digital certificates. 7M

- 4. a) Explain the services provided by PGP. 7M
- b) Explain S/MIME certificate processing. 7M

- 5. a) Discuss the applications of IPSec. 4
- b) Briefly explain combining security associations. 10

- 6. a) Explain SSL architecture in detail. 7M
- b) Discuss the key features of SET. 7M

- 7. Explain the basic frame work for SNMP. 14M

- 8. a) Explain different types of firewalls. 7M
- b) What is the difference between statistical anomaly detection and rule based intrusion detection? 7M

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Code : 1G163

III B.Tech. II Semester Supplementary Examinations December 2015

Linux Programming
(*Computer Science & Engineering*)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

- 1. a) Explain different modes and searching a pattern in VI Editor. 7M
b) Give the syntax and options for the following commands with examples
 - i) tar
 - ii) umask
 - iii) arp 7M
- 2. a) Write short notes on shell looping structures. 7M
b) Write a shell script to display N Fibonacci numbers. 7M
- 3. a) Explain the Unix file structure. 7M
b) Write a short notes on the following commands
 - i) chmod
 - ii) chown
 - iii) link 7M
- 4. a) Give a brief description of various signal functions. 10M
b) Discuss about Zombie process. 4M
- 5. a) Explain about Inter process communication using pipes. 7M
b) What are message queues? Explain the concept of kernel support for messages. 7M
- 6. a) Explain the function of a semaphore? And also explain about kernel support for semaphores? 7M
b) Write about semaphore and semaphore and shared memory example. 7M
- 7. a) What are the benefits of multithreaded programming? 7M
b) Explain thread synchronization with semaphore. 7M
- 8. a) Write about socket addresses. 7M
b) Explain the concept of Linux system calls for connection oriented and connection less protocols. 7M

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Code : 1G164

III B.Tech. II Semester Supplementary Examinations December 2015

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)

1. Describe in detail about the building blocks of a unified modeling language. 14M
2. a) With respect to unified modeling language, explain the organization of attributes and operations of a class. 7M
b) Which relationship will be called as a structural relationship? Explain it in detail. 7M
3. a) What is an interface? How it is different from a package. Explain with example. 7M
b) How can we distinguish that an association relation is a real or conceptual. 7M
4. a) What is meant by semantic equivalence? Explain it in detail. 7M
b) List and explain the several kinds of actions that can performed on interactions. 7M
5. a) A use case describes what a system or subsystem does but it does not specify how it does it. Justify. 7M
b) Write and explain the steps of forward and reverse engineering of a use case diagram. 7M
6. a) Discuss in detail about the history states. 6M
b) Give brief description about the various kinds of events. 8M
7. a) List and explain the kinds of components supported by UML. 5M
b) What kind of relationship exists between nodes and components? Explain. 5M
c) Write short notes on the common uses of a component diagram. 4M
8. a) Generate the use case diagrams for library management system 7M
b) Draw the collaboration diagrams for money transaction using ATM. 7M

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Code : 1G165

III B.Tech. II Semester Supplementary Examinations December 2015

Software Engineering
(*Computer Science & Engineering*)

Max. Marks: 70

Time: 03 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

1. a) What is legacy software? What should a software engineer do when he encounters a legacy system with poor quality? 7M
b) Define a process pattern? Develop a complete process pattern for prototyping activity. 7M
2. a) Mention the drawbacks of different software process models. 7M
b) Explain the functional and non functional requirements. 7M
3. Explain the role of system models in requirements engineering process. 14M
4. Explain the major elements of design model. 14M
5. a) What principles are followed in user interface design? 7M
b) How is object constraint language used in design? 7M
6. a) What test strategies are followed for conventional software? 7M
b) What metrics are used in design and analysis models? 7M
7. What are software risks? Discuss RMMM plan. 14M
8. a) Explain software quality assurance. 7M
b) Explain ISO 9000 quality standards. 7M
