MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016
(Regulations: R14)
ACCOUNTANCY & FINANCIAL MANAGEMENT

Time: 3Hrs   Max Marks: 60

> Attempt all the questions. All parts of the question must be answered in one place only.
> **In Q.no 1 to 5 answer either I or II only**

Q.1(A)	What are accounting concepts and conventions? Name them and explain any five accounting concepts in detail.	12M

OR

Q.1(B)	Classify the different types of the accounts and explain Debit Credit rules in detail.	12M
Q.2(A)	Define Financial Management. Explain its scope and importance.	12M

OR

Q.2(B)	Calculate the Degree of Financial Leverage (DFL) Degree of combined Leverages using the information: Sales Rs.90000, Variable Cost Rs.45000, Fixed cost Rs.25,000 and the interest is paid for Rs.15000.	12M
Q.3(A)	Define Ratio. Explain its classification.	12M

OR

Q.3(B)	Opening stock and closing stock of raw material is Rs.1,00,000 and 80,000 respectively. Total purchase of raw material and purchase return for the year is Rs.5,60,000 and Rs.20,000 respectively. What is the amount of raw material consumed?	12M
Q.4(A)	From the following information, calculate the break-even point in units and sales value Output: 3,000 units, Selling Price=Rs.30 per unit, Variable Cost=Rs.20/- per unit and Total Fixed cost = Rs.20,000.	12M

OR

Q.4(B)	The sales turnover and profit during two years were as follows.	12M

Year	Sales	Profits
1	1,40,000	15,000
2	1,60,000	20,000
You are required to calculate P/V Ratio		

Q.5(A) There are two projects X and Y. Each project requires an investment of Rs.20,000. You are required to rank these projects according to the payback method from the following information: **12M**

Net Profit before depreciation and after tax

Years	Project X	Project Y
1	1,000	2,000
2	2,000	4,000
3	4,000	6,000
4	5,000	8,000
5	8,000	--

OR

Q.5(B) X Ltd., is contemplating the introduction of a new machine. From the following information given to you, determine the profitability of the project. **12M**

Assuming 10 per cent as the cost of capital:

Year	0	1	2	3	4	5
Cash Outlay	400000	--	--	300000	--	----
Net Inflows	--	200000	200000	--	400000	800000

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MCA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016
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JAVA PROGRAMMING

Time: 3Hrs   Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either Part A or B only

Q.1(A) i. "Java is platform independent language" Why? Explain in detail.   12M
        ii. Write a program to find the roots of quadratic equation.
                                        OR

Q.1(B) i. Explain class and Object with an example? How are methods used within a class   12M
        ii. Define Inner class and Anonymous class? Explain with an example.

Q.2(A) i. What is a package? How do we design a package explain?   12M
        ii. How do we add a class or interface to a package with an example.
                                        OR

Q.2(B) i. What is an array? Why arrays are easier to used compare to a bunch of related   12M
           variables?
        ii. Write a java program to sort the list of integers.

Q.3(A) Describe the life cycle of a thread with a neat sketch.   12M
                                        OR

Q.3(B) i. What is a thread group class? Explain any three methods of this class.   12M
        ii. How can we set the priorities for a thread?

Q.4(A) i. What is a port? What are the differences between machines in a network   12M
           addressed? Explain.
        ii. Write a java program to merge the contents of one file and another file.
                                        OR

Q.4(B) Write a client-server application that takes the password as input and check whether   12M
        it is correct. The program should print appropriate messages.

Q.5(A) i. What are containers? List various containers. Explain the usage of JPanel with   12M
           Example.
        ii. Explain the use of JTable class with example.
                                        OR

Q.5(B) i. Write the difference between Listeners and Adapter class. Explain with an example.   12M
        ii. What is the use of JFrame? Create a JFrame containing a JTabbedPane.

*** END***

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MCA II Year I Semester (R14) Supplementary End Semester Examinations – June 2016
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COMPUTER NETWORKS

Time: 3Hrs   Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either Part A or B only

Q.1(A)	Explain how does communication takes place in TCP/IP model by specifying the function of its each layer.	09M
	Briefly explain any 3 types of networks.	03M
	OR	
Q.1(B)	Explain with neat diagram any 3 types of network topologies.	06M
	Explain simplex, duplex and full Duplex communication	06M

Q.2(A)	Explain the working of Circuit and Packet switching network in detail.	12M
	OR	
Q.2(B)	a. Define i)Analog data ii)Digital data iii)Bandwidth iv)Amplitude v)Unguided media vi)Guided media	12M

Q.3(A)	What is Congestion control? Explain open loop and closed loop congestion control.	12M
	OR	
Q.3(B)	Why IPv6 addressing is needed? Explain both IPv4 and IPv6.	12M

Q.4(A)	What is DNS? Explain.	06M
	Explain TELNET remote logging.	06M
	OR	
Q.4(B)	With neat diagram explain the functions of network management system	12M

Q.5(A)	Define the terms a)Cryptography b)Cipher c)Key	06M
	What is firewall? Explain the types of firewalls.	06M
	OR	
Q.5(B)	What is Digital signature?Compare conventional signature with digital signature.	12M

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