Hall Ticket No: Question Paper Code: 16
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## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA II Year I Semester (R16) Supplementary End Semester Examinations –December 2019 (Regulations: R16)

## FINANCIAL ACCOUNTING FOR MANAGERS

Time: 3Hrs Max Marks: 50

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) Define double entry system of accounting. Discuss the objectives and importance of accounting.

OR

Q.1(B) (i) What are the golden rules of debit and credit?

5M

(ii) Discuss the uses of accounting.

5M

Q.2(A) What are the accounting concepts? Explain any five in detail.

10M

OR

Q.2(B) The following balances are obtained from the books of XYZ Ltd., for the year ending 10M 31<sup>st</sup> March, 2018.

Particulars	Dr. Rs.	Cr. Rs.
Purchases and Sales	4,50,000	9,63,000
Returns	30,000	15,000
Debtors and Creditors	6,00,000	3,66,000
Drawings and Capital	72,000	3,18,000
Interest received		12,000
Salaries	90,000	
Wages	60,000	
Rent	66,000	
Printing and stationery	24,000	
Insurance	36,000	
Opening stock	1,50,000	
Office expenses	36,000	
Furniture	60,000	
Total	16,74,000	16,74,000

Adjustment: a) Closing Stock Rs.4,00,000

You are required to prepare Trading, Profit & Loss A/c and a Balance Sheet.

Q.3(A)	Distinguish between straig	ht line meth	od and written down value	method.	10M
			OR		
Q.3(B)	The following is the record of receipts of certain materials during February, 2019: February 1 Received 400 units @ Rs. 10 per unit February 4 Received 300 units @ Rs. 11 per unit February 16 Received 200 units @ Rs. 12 per unit February 25 Received 400 units @ Rs. 13 per unit  During February 2019, the following issues of materials are made February 10 Issued 200 units February 15 Issued 100 units February 17 Issued 200 units February 20 Issued 200 units February 26 Issued 100 units February 28 Issued 200 units Show how these transactions will appear in the Stores Ledger under LIFO Method and state the amount of inventory of February 28, 2019.			10M	
Q.4(A)	State the differences betw	een funds flo	ow statement and cash flow	v statement.	10M
			OR		
Q.4(B)	What is funds flow statement.	ent? Explain	the steps in the preparation	n of funds flow	10M
Q.5(A)	What are the profitability r	atios? Expla	in their significance.		10M
			OR		
Q.5(B)	From the following Balance (a) Current Ratio. (b) Quick Ratio. (c) Super quick ration (d) Working capital	o ratio.		, no	10M
	Liabilities	Rs.	Assets	Rs.	

Liabilities	Rs.	Assets	Rs.
Equity share capital	1,00,000	Cash in hand	2,000
6% preference share	1,00.000	Cash at Bank	10,000
capital			
7% Debentures	40,000	Bills receivable	30,000
8% Public debt	20,000	Investments	20,000
Bank over draft	40,000	Sundry debtors	70,000
Sundry Creditors	60,000	Closing stock	40,000
Outstanding expenses	7,000	Plant and Machinery	1,00,000
Proposed dividend	10,000	Furniture	30,000
Reserves	1,50,000	Land and Buildings	2,20,000
Provision for taxation	20,000	Goodwill	35,000
Profit & loss account	20,000	Preliminary expenses	10,000
	5,67,000		5,67,000

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(UGC-AUTONOMOUS)

MCA II Year I Semester (R16) Supplementary End Semester Examinations –December 2019 (Regulations: R16)

## DESIGN AND ANALYSIS OF ALGORITHMS

	DESIGN AND ANALYSIS OF ALGORITHMS	
Time	: 3Hrs Max Marks	: 50
	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)	Give the algorithm for matrix multiplication and find the time complexity of the algorithm using step – count method.  OR	10M
Q.1(B)	<ul><li>i. Explain the properties of an algorithm with an example.</li><li>ii. Differentiate between Bigoh and omega notation with example</li></ul>	10M
Q.2(A)	Show the result of running Merge sorting technique on the sequence 38,27,43,3,9,82,10	10M
	OR	
Q.2(B)	Explain the greedy technique for solving the Job Sequencing problem.	10M
Q.3(A)	Explain the Travelling sales man problem.	10M
	OR	
Q.3(B)	Draw an Optimal Binary Search Tree for n=4 identifiers (a1,a2,a3,a4) = (do,if, read, while) $P(1:4)=(3,3,1,1)$ and $Q(0:4)=(2,3,1,1,1)$	10M
Q.4(A)	Give the solution to the 8-queens problem using backtracking method with algorithm.	10M
	OR	
Q.4(B)	Explain the Graph – coloring problem. And draw the state space tree for m= 3colors n=4 vertices graph. Discuss the time and space complexity.	10M
Q.5(A)	i. Explain the basic concepts of P, NP, NP-Complete and NP-Hard. ii. Discuss in detail on Clique Decision problem  OR	10M
Q.5(B)	i. Explain a NP-Hard code generation problem. ii. State and explain CooK's theorem  *** END***	10M