

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Reaccredited with 'A' Grade by NAAC)

MCA II Semester Supplementary Examination, April - 2017

**Subject : Accounting & Financial Management
Sub Code : MCA 13201**

**Exam Time : 3hrs
Max. Marks : 100**

Answer the following questions:

(5*20=100M)

UNIT-I

- What do you mean by Accounting? Explain the double entry system of book-keeping.

(OR)

- From the following ledger balances of XYZ as on 31-3-2003 Prepare the final A/C.

Debit Balances:

Cash in hand	500
Cash at Bank	2,670
Purchases	40,000
Return Inward	1,355
Wages	8,000
Fuel and Power	5,210
Carriage on Sales	3,200
Carriage on Purchases	2,000
Buildings	44,000
Machinery	25,000

Credit Balances:

Sales	1, 10,780
Capital	1, 01,500
Rent	9,000
Return outwards	1,000
Sundry creditors	21,300
Investments	10,000
Patents	7,500
Salaries	15,000
General Expenses	3,000
Insurance	1,200
Drawings	5,245
Sundry debtors	13,900
Stock (1-4-2002)	5,800
Freehold Land	50,000

Adjustments:

- Closing stock Rs 6,000
- Depreciate machinery at 10% and patents at 20%.
- Outstanding salaries for the month of March 2003 Rs 1,500
- Prepaid insurance Rs 300
- Bad debts Rs 1,000
- Rent received in advance Rs 1,000
- Interest on investment of Rs 2,000 accrued.

UNIT-II

- What are the objectives of analyzing financial statement of a company with regard to different stake holders?

(OR)

(P.T.O)

4. Following is the Balance Sheet of Krishna Ltd as on 31-12-1998.		
Liabilities	Rs	Assets
Equity share capital	1, 00,000	Fixed assets
9 % Preference share capital	50,000	Current assets
Reserves & surpluses	4, 00,000	Preliminary expenditure
12% Debentures	4, 00,000	
Current liabilities	40,500	
Provisions	22,000	
		10, 12,500
	10, 12,500	

During the year ended 31st March 1998 profit before tax of Rs 1, 00,000 after providing for interest on debentures. Assuming tax rate to be 50% .Calculate the following ratios:

- a) Debt – equity ratio
- b) Proprietary ratio
- c) Fixed asset ratio
- d) Capital gearing ratio
- e) Dividend coverage ratio.

UNIT-III

5. What is Funds flow statement? Explain the procedure for preparing funds flow statement.
(OR)
6. Explain the concept of working capital. Briefly discuss the sources of working capital of a firm.

UNIT-IV

7. Define cost of capital. Explain the concept and significance clearly.
(OR)
8. A company is considering two mutually exclusive projects.
 Both require an initial outlay of Rs 10,000
 Life span = 5 yrs
 Required rate of return = 10%
 Pays tax rate = 50%
 Projects will be depreciated on straight line basis.
 The cashflow before tax on both the projects are as follows:

Year	Project A	Project B
	Rs.	Rs.
1.	4,000	6,000
2.	4,000	3,000
3.	4,000	2,000
4.	4,000	5,000
5.	4,000	5,000

Calculate for each project:

- 1) Pay back period
- 2) Average rate of return
- 3) Net present value
- 4) Profitability index

UNIT-V

9. Explain the meaning, assumptions and limitations of break-even analysis.
(OR)
10. Distinguish variable costing from absorption costing. Explain the managerial uses of CVP analysis.

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M.C.A II Semester Final Examination, July/Aug- 2017

**Subject: Operating Systems
Sub Code: MCA 16205**

**Exam Time: 3 hrs
Max Marks: 100 M**

Answer one from each unit. All Questions carry equal marks:

(5*20=100M)

UNIT – I

1. a) Explain Round Robin scheduling algorithm with example.
b) What is a thread? Explain its advantages with an example.

(Or)

2. a) Explain different CPU scheduling criteria.
b) What is Multi-processor scheduling? Explain different issues related in implementation.

UNIT – II

3. a) What is contiguous memory location? Explain with the help of hardware structure.
b) Explain LRU page replacement method with example.

(Or)

4. a) What is paging? Explain its hardware structure elements.
b) What is thrashing? Explain its causes.

UNIT – III

5. a) What is a monitor? How it is useful for the implementation of process synchronization.
b) What is deadlock? Explain different necessary conditions to control deadlock.

(Or)

6. a) Explain different deadlock prevention methods in detail.
b) Explain dining philosopher's problem and its solution.

UNIT – IV

7. a) Explain SCAN scheduling algorithm with example.
b) Explain Caching and Buffering with its role in I/O system.

(Or)

8. a) What is DMA? Explain its role in I/O structure.
b) What is a Kernel? Explain Buffering and Caching.

(P.T.O)

UNIT – V

9. a) What is Linux kernel? Explain the components of Linux system.
b) What is UNIX security mechanism? Explain different classifications of security groups.
(Or)
10. a) Explain different functions related to Linux Processes and Threads.
b) Explain different design principles of Windows XP.

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A II Semester Final Examination, July/Aug- 2017

Subject: Accounting & Financial Management
Sub Code: MCA 16202

Exam Time: 3 hrs
Max Marks: 100 M

Answer one from each unit. All Questions carry equal marks:

(5*20=100M)

UNIT-I

1. Define accounting .List down advantages and disadvantages of accounting.
(Or)
2. Journalise the following transactions, post them into ledger A/C and prepare trial balance.

2017 Jan 1	Ramesh started business with cash	40,000
2017 Jan 2	Paid into Bank	28,000
2017 Jan 13	Sold goods to Krishna	2,150
2017 Jan 20	Purchased goods from Shyam	4,225
2017 Jan 24	Received from Krishna in full Settlement	2,100
2017 Jan 28	Paid to Shyam in full settlement	4,000
2017 Jan 30	Paid Rent	500
2017 Jan 30	Paid salary	1,000

UNIT-II

3. Write in detail about final accounts. List down its importance along with the proforma.
(Or)
4. Following is the Trial balance of M/s Kasturi Agencies as on 31st March 2017.Prepare Trading & Profit and Loss Account for the year ended 31st March 2017 and a Balance sheet on that date.

Particulars	Amount Rs	Amount Rs
Capital		1,00,000
Drawings	18,000	
Buildings	15,000	
Furniture & Fittings	7,500	
Motor Van	25,000	
Loan from Hari		15,000
Interest on Loan	900	
Sales		1,00,000
Purchases	75,000	
Opening Stock	25,000	
Expenses on stationery	15,000	
Wages	2,000	
Insurance	1,000	
Commission Received		4,500
Sundry Debtors	28,100	
Bank Balance	20,000	
Sundry Creditors		10,000
Interest		3,000
	<u>2,32,500</u>	<u>2,32,500</u>

Adjustments:

- Closing Stock Rs 32,000/-
- Outstanding wages Rs 500
- Prepaid insurance Rs 300/-
- Commission received in advance Rs 1,300
- Depreciate building by 2% and furniture and fitting by 10% and Motor van by 10%

UNIT-III

5. Explain the concept of ratio analysis. List down its significance and limitations. How are ratios classified?

(Or)

6. From the following two balance sheets as on 31st December 2010 and 2011, you are required to prepare statement showing flow of funds.

Particulars	Amount 2010	Amount 2011
Assets	Rs	Rs
Cash	30,000	47,000
Debtors	1,20,000	1,15,000
Stock in trade	80,000	90,000
Land	50,000	66,000
	2,80,000	3,18,000
Capital and Liabilities		
Share Capital	2,00,000	2,50,000
Trade Creditors	70,000	45,000
Retained Earnings	10,000	23,000
	2,80,000	3,18,000

UNIT-IV

7. Write a detailed notes on various capital budgeting techniques.

(Or)

8. A company is considered an investment proposal costing Rs 40,000 with the following expected net cash flows after tax and before depreciation.

Year:	1	2	3	4	5	6	7	8	9	10
Net Cash Flow	7000	7,000	7,000	7,000	7,000	8,000	10,000	15,000	10,000	4,000

Using 10% cost of capital determine

- Payback period
- NPV
- Profitability index and IRR.

UNIT-V

9. Define cost. Write about classification of costs.

(Or)

10. Write the following data for a 60% capacity. Prepare a budget for production at 80% and 100% capacity.

Production at 60% capacity	600 units
Material	Rs 100 per unit
Labour	Rs 40 per unit
Direct expenses	Rs 10 per unit
Factory Overheads	Rs 40,000 (40% fixed)
Administration Expenses	Rs 30,000 (60% fixed)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Affiliated to Osmania University)

M.C.A II Semester Supplementary Examination, Dec/Jan- 2017/18

**Subject: Computer Networks
Sub Code: MCA 16206**

**Exam Time: 3 hrs
Max Marks: 100 M**

Answer the following:

(5*20=100M)

UNIT-I

1. a) Explain TCP/IP Model with a neat diagram. (10M)
b) Explain Line coding schemes with an example and a neat sketch. (10M)
2. a) Explain OSI/ISO Model with a neat diagram. (10M)
b) Explain different Transmission Impairments. (10M)

UNIT - II

3. a) Define stop and wait flow control. (5M)
b) Explain HDLC. (15M)
4. Write about the following.
(i) Sliding window Flow Control (ii) CSMA/CD
(iii) Slotted ALOHA (6M+7M+7M)

UNIT - III

5. a) Explain IP Addressing system with different classes and their ranges. (10M)
b) Explain Datagram circuit approach for transferring data from sender to receiver. (10M)
6. a) Explain Link state routing algorithm with an example. (15M)
b) Explain BGP. (5M)

UNIT - IV

7. a) Explain TCP Segment Header with a neat diagram. (15M)
b) Explain the services of Transport Layer. (5M)
8. a) Explain TCP Connection establishment and release. (10M)
b) Explain different timers in TCP. (10M)

UNIT - V

9. Explain
a) SMTP b) WWW (10M+10M)
10. Explain
a) HTTP b) FTP (10M+10M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (II semester) Semester Supplementary Examination, April - 2017

Subject : Computer Architecture
Sub Code : MCA 10205

Exam Time : 3hrs
Max. Marks : 100

Answer the following questions:**(5*20=100M)****UNIT-I**

1. a) Distinguish between combinational and sequential circuits. (5M)
 - b) Simplify the Boolean function:
 $F(A, B, C, D) = \Sigma(0, 1, 2, 5, 8, 9, 10)$ using four variable Karnaugh map. (10M)
 - c) Explain with an example a self complementing 4 bit binary code. (5M)
- (Or)**
2. a) Realize the Boolean function $f(A, B, C) = (A+B)(B+C)(A+B)$ using only NAND gates. (10M)
 - b) Explain about error detection codes with suitable example. (10M)

UNIT-II

3. a) Explain about 4-bit binary subtractor and 4-bit binary incrementer using diagrams. (10M)
 - b) Draw the block diagram of a typical arithmetic logic shift unit and explain its operations. (10M)
- (Or)**
4. a) Explain the function of timing and control circuits in a computer. (10M)
 - b) List out all memory reference instructions of a simple computer and explain its operation. (10M)

UNIT-III

5. a) Draw the block diagram of microprogram sequencer and explain its operation. (10M)
 - b) Explain the meaning of the terms:
 (i) Control memory (ii) CAR (iii) Micro instruction
 in a computer with micro programming facility showing in a neat diagram.
- (Or)**
6. a) Write short notes on subroutines and interrupts. (10M)
 - b) Write an assembly language program to multiply two positive numbers by repeated addition method. (10M)

UNIT-IV

7. a) Explain in detail about various addressing modes with example. (12M)
 - b) Distinguish between stack oriented organization and general register organization of a computer. (8M)
- (Or)**
8. Draw the block diagram of a decimal arithmetic unit to perform multiplication. (20M)
 Explain its operation with a suitable example.

UNIT-V

9. a) What is meant by Asynchronous data transfer? Explain about hand shaking in detail. (10M)
 - b) Explain the working of DMA controller with block diagram. (10M)
- (Or)**
10. a) What is Cache memory? Discuss about set associative mapping and its use. (10M)
 - b) Explain the three different methods of data transfer between CPU and peripheral device. (10M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A II Semester Supplementary Examination, Dec/Jan- 2017/18

**Subject: Accounting and Financial Management
Sub Code: MCA 16202**

**Exam Time: 3 hrs
Max Marks: 100 M**

Answer the following:

(5*20=100M)

1. Write a detail notes on accounting concepts and conventions

(Or)

2. Given the following Transaction of ABCL Ltd in August. Prepare Journal, Ledger and Trial Balance

Aug. 1	Started business with cash	150,000
Aug.3	Deposited in bank	50000
Aug.4	Purchased machinery for cash	25,000
Aug.6	Purchased goods for cash	16,000
Aug.7	Sold goods to Jacob	20000
Aug.10	Purchased goods from Vincent	30000
Aug.14	Cash sales to Hari	25000
Aug.17	Received cash from Jacob in full settlement	19500
Aug.25	Returns goods to Vincent	15000
Aug.31	Paid employee salaries	6,000.
Aug.31	Paid Vincent	15000

3. Explain in detail about terminal statements with the help of performa. Highlight its importance.

(Or)

4. Given the following balances on 31 December 2016 of Vijay Ltd. Prepare Final accounts

Particulars	Debit	Credit
Opening stock	250000	
Capital		1000000
furniture	75000	
Buildings	150000	
plant and Machinery	250000	
Drawings	180000	
Debtors	281000	
Bank	200000	
Creditors		250000
Rent paid	9000	
Purchases	750000	
Sales		1000000
Admin Expenses	150000	
Wages	20000	
insurance	10000	
Rent received		45000
Interest received		30000
	2325000	2325000

(P.T.O)

Adjustments:

- Closing stock 450000
- Irrecoverable debts 31000
- The company provides 10% of debtors as provision for bad and doubtful debts
- Outstanding wages 20000

5. Define ratio analysis. Explain various types of ratios. List down its merits and demerits.

(Or)

6. Given the following information prepare funds flow statement

Particulars	Amount	Amount
	2015	2016
Assets:		
Cash	3000	4700
Debtors	12000	11500
Stock in trade	8000	9000
Land	5000	6600
	<u>28000</u>	<u>31800</u>

Capital and**Liabilities:**

Share Capital	20000	25000
Trade Creditors	7000	4500
Retained Earnings	1000	2300
	<u>28000</u>	<u>31800</u>

7. Write detailed notes on capital budgeting techniques.

(Or)

8. An investment proposal would initially cost Rs. 25000. The required rate of return is assumed to be 10%. Calculate Net present value and IRR given the following information about the cash inflow generated by the project

Year	Cash flows
1	Rs.9000
2	Rs.8000
3	Rs.7000
4	Rs.6000
5	Rs.5000

9. Write short notes on
- Types of cost
 - CVP Analysis
 - Absorption Costing
 - Variable costing

(Or)

10. Prepare flexible budget for production at 80% and 100% activity on the basis of the following information:

Production at 50% capacity	: 5000 Units
Raw Materials	: Rs 80 per unit
Direct Labour	: Rs 50 per unit
Direct Expenses	: Rs 15 per unit
Factory Expenses	: Rs 50000(50% variable)
Administration Expenses	: Rs 60000(60% variable)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A II Semester Final Examination, July/Aug- 2017

Subject: Operations Research

Exam Time: 3 hrs

Sub Code: MCA 16203

Max Marks: 100 M

Answer one from each unit. All Questions carry equal marks:

(5*20=100M)

UNIT-I

1. Write in detail about the

- (a) Concept of Duality, rules for formulation of dual, its characteristics and merits (12M)
- (b) Infeasible solution (3M)
- (c) Unbound solution (3M)
- (d) Degeneracy (2M)

(OR)

- (e) A firm makes two types of furniture chairs and tables. The contribution for each product as calculated by the accounting department is Rs. 20 per chair and Rs. 30 per table. Both the products are processed on three machines M1, M2 and M3. The time required (in hours) by each product and total time available per week on each machine are as follows:

Machine	Chair	Table	Available hours per week
M1	3	3	36
M2	5	2	50
M3	2	6	60

How should the manufacturer schedule his production in order to maximize contribution? Formulate the problem as a linear programming problem and solve it using simplex method.

UNIT-II

3. Solve the following transportation problem for optimum solution having cost structure as follows –

FACTORY	WARE HOUSE				SUPPLY
	W1	W2	W3	W4	
F1	10	18	11	7	20
F2	9	12	14	6	40
F3	8	9	12	10	35
DEMAND	16	18	31	30	95

(OR)

(P.T.O)

4. (a) Write in detail about various types of transportation problem
 (b) Explain about various methods of solving transportation problem for IBFS as well as for Optimum solution (12M)

UNIT-III

5. A computer centre has got 4 expert programmers. The centre needs 4 application programs to be developed. The head of the computer centre after studying carefully, the programs to be developed, estimates the computer time in minutes required by the respective experts to develop the application programs using Hungarian method as follows.

programmers	<u>Jobs</u>			
	A	B	C	D
1	120	100	80	90
2	80	90	110	70
3	110	140	130	100
4	90	90	80	90

(OR)

6. (a) Write a short note on Zero -One programming Model (8M)
 (b) Write in detail about branch and bound technique for solving assignment problem with the help of illustration. (12M)

UNIT-IV

7. A Project is represented by the network by the help of following data

Activity	to	tm	tp
1-2	3	6	15
1-3	2	5	14
1-4	6	12	30
2-5	2	5	8
2-6	5	11	17
3-6	3	6	15
4-7	3	9	27
5-7	.1	4	7
6-7	2	5	8

Determine

- i. Expected Task Time(t_e) and their variance (σ^2)
- ii. The Earliest and Latest expected to reach each event
- iii. Critical Path
- iv. The probability of an event occurring at the proposed completion date if the original contract time of completing the project is 27 days

(OR)

8. (a) Mention the rules for drawing network diagram (10M)
(b) Errors in network diagram with the help of example (6M)
(c) Application of dynamic programming (4M)

UNIT-V

9. (a) A is paid Rs. 8 if two coins turn both heads and Re.1 if two coins turn both tails. B is paid Rs. 3 when the two coins do not match. Given the choice of Being A or B, which one would you choose and what would be your strategy? (12M)
(b) How do you solve game theory using LPP. (8M)
- (OR)
10. (a) Explain the concept of dominance principle with the help of example (6M)
(b) How to reduce a matrix with the help of graphical method (10M)
(c) Differentiate between pure and mixed strategy games (4M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (II semester) Semester Supplementary Examination, April - 2017

**Subject : Data Structures Using C++
Sub Code : MCA 10204**

**Exam Time : 3hrs
Max. Marks : 100**

Answer the following questions:

(5*20=100M)

UNIT-I

1. a) Explain linked list operations.
- b) Discuss about doubly linked list with an example.
- (Or)
2. Write a program to implement circular linked list.

UNIT-II

3. a) Discuss about sparse matrices.
- b) Write a C++ program for stack operations.
- (Or)
4. a) What are the applications of stacks.
- b) Write a C++ program for queue operations.

UNIT-III

5. Write a C++ program for implementing Binary Tree Traversal.
- (Or)
6. a) Explain the operations on AVL Trees.
- b) Explain the operation on B-Trees.

UNIT-IV

7. a) Explain Hashing
- b) Explain Selection sort with example.
- (Or)
8. a) Explain Heap sort with example.
- b) Write a C++ program for Binary Search

UNIT-V

9. Explain Graph Traversals with example.
- (Or)
10. Explain the applications of graphs with an example.

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M.C.A II Semester Final Examination, July/Aug- 2017

Subject: Computer Networks
Sub Code: MCA 16206

Exam Time: 3 hrs
Max Marks: 100 M

Answer one from each unit. All Questions carry equal marks:

(5*20=100M)

UNIT - I

1. a) Explain OSI/ISO Model with a neat sketch. (10 M)
b) Explain Coaxial cable and Fiber Optics with a neat diagram. (10 M)
- (Or)
2. a) Explain different types of connections and network topologies. (10 M)
b) Explain different Transmission Impairments. (10 M)

UNIT - II

3. a) Define an error and explain different types of errors. (10 M)
b) Explain Go-back-N ARQ sliding window protocol. (10 M)
- (Or)
4. Write about the following.
a) Stop and Wait Protocol b) CSMA/CD
c) Slotted ALOHA (6M + 7M + 7M)

UNIT - III

5. a) Explain IP Addressing system with different classes and their ranges. (10 M)
b) Explain virtual circuit approach for transferring data from sender to receiver. (10 M)
- (Or)
6. a) Explain Distance Vector Routing algorithm with an example. (15 M)
b) Explain OSPF. (5 M)

UNIT - IV

7. a) Explain TCP Segment Header with a neat diagram. (15 M)
b) Explain the services of Transport Layer. (5 M)
- (Or)
8. a) Explain TCP Congestion Control. (10 M)
b) Explain different timers in TCP. (10 M)

UNIT - V

9. Explain (10M + 10M)
a) SNMP b)HTTP
- (Or)
10. Explain (10M + 10M)
a) DNS b)FTP

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M.C.A II Semester Final Examination, July/Aug- 2017

Subject: C++ & Data Structures

Exam Time: 3 hrs

Sub Code: MCA 16204

Max Marks: 100 M

Answer one from each unit. All Questions carry equal marks:

(5*20=100M)

UNIT - I

1. Explain basic concepts of oops in c++ **(20M)**
(Or)
2. a) Explain inline function with an example. **(10M)**
b) Explain arrays in functions with an example. **(10M)**

UNIT - II

3. Explain constructors and destructors in detail **(20M)**
(Or)
4. a) Explain friend function with an example **(10M)**
b) Define class. Explain public and private access specifiers with an example **(10M)**

UNIT - III

5. a) Explain operator overloading with a suitable example **(10M)**
b) Explain class template with a program **(10M)**
(Or)
6. a) Define virtual base class **(3M)**
b) What are the benefits of inheritance? **(7M)**
c) Explain exception handling mechanism with a program **(10M)**

UNIT - IV

7. a) Define Linked list. Explain different operations of a Linked list **(10M)**
b) Explain stack using array representation **(10M)**
(Or)
8. Write a note on
a) Hashing and Collision Resolution **(12M)**
b) What are the applications of a queue **(8M)**

(P.T.O)

UNIT - V

(20M)

9. Explain different tree traversal techniques with examples.

(Or)

(10M)

10. a) Explain BFS with an example

(10M)

b) Explain different operations on AVL trees

(10M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A II Semester Final Examination, July/August - 2017

Subject: Value Education & P D

Sub Code: MCA 16201

Exam Time: 3 hrs

Max Marks: 100 M

Answer the Following

(5*20=100M)

UNIT-I

1. Define "accepted norms" and "counter values" with relevant examples.
(OR)
2. Explain how ethics is a way for harmonious society.

UNIT-II

3. Discuss happiness as the goal of life. Explain the prescriptions for happiness given by the four major Indian religions.
(OR)
4. Discuss the four rational approaches on the existence of God along with your own concluding remark.

UNIT-III

5. What is true society? Does the Indian society have any resemblance of the true society? Discuss the four symptoms- social desire, social fear, social silence and social indifference- in the context of Indian society.
(OR)
6. If you believe that a better world is possible, what should be your contribution as a student and what basic values/virtues should govern you to attain that better world?

UNIT-IV

7. What are the elements of personality? Define your personality in terms of your strengths and weaknesses.
(OR)
8. Write short notes on
 - a) Self-Identity
 - b) Self concept
 - c) Self-Discovery
 - d) Self-acceptance
 - e) Self-Esteem

UNIT-V

9. Write in detail about time management.
(OR)
10. What do you mean by emotion and write in detail by Emotion Management.