

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Re-Accredited with 'A' Grade by NAAC)

M.C.A II Semester Examination, August - 2015

Subject: Value Education

Sub. Code : MCA 10106

Exam Time : 3 hrs

Max. Marks : 100

Answer any one of the essay questions from each of the following units: (5*20=100M)

UNIT – I

1. What is Value Education? Why is it so important in the character formation of a student? Enumerate all its objectives.
2. What is conscience? How does it work as a referee? How is it different from pseudo-conscience?

UNIT – II

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

UNIT – III

5. "Though human beings have advanced in science and technology, they have degraded themselves in human values". Discuss the comment by comparing life in the past with that of the present.
6. What are the various mass media? Discuss minimum three of them and highlight the accepted norms and counter values found in each of them.

UNIT – IV

7. What is meant by concern? Explain the three demands given in the text to show why one should have concern? Narrate a personal incident wherein you showed concern towards another person (friend or enemy).
8. What is a true society? Does the Indian society have any semblance of the true society? Discuss the four symptoms – social desire, social fear, social silence and social indifference – in the context of the Indian society.

UNIT – V

9. Explain the three components of love and also explain "love" in your own terms after having gone through the chapter on love in your text book.
10. Explain health and its importance. In this context, discuss minimum three addictions and explain how they affect health. Give a remedy each.

LOYOLA ACADEMY DEGREE & PG COLLEGE, ALWAL

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MCA (II semester) Examination, August 2015

Sub : Accounting & Financial Management
Sub. Code : MCA 10201

Exam Time : 3 hrs
Max. Marks : 100

Answer the following questions

5 x 20 M = 100 M

UNIT-I

1. Write about accounting concepts & conventions.

(OR)

2. Journalize the following in the books of Mr. Ramu and post them in ledger, prepare Trial Balance.

Jan 2015	started business with cash	Rs.5,00,000
Jan 1 2015	Purchased furniture	Rs.50,000
Jan 3 2015	Sold goods to Mr. Ravi	Rs.60,000
Jan 4 2015	Paid rent	Rs.6000
Jan 5 2015	Deposited into bank	Rs.75,000
Jan 6 2015	Withdraw cash for personal use	Rs.10000
Jan 7 2015	Cash received from Mr. Ravi in full settlement of his account	Rs.59,000
Jan 8 2015	Purchased goods from Mr. kiran	Rs.10,000

UNIT-II

3. Prepare Trading Account, Profit & Loss Account and Balance sheet of Premier and Co.

Debit	Credit		
Plant & Machinery	320000	Sales	500000
Rent	20000	Purchase returns	10000
Sales returns	30000	Bank loan	150000
Freight	4000	Capital	181500
Account receivables	70000	Account payable	130000
Opening inventory	120000	Bills payables	285'00
Purchases	230000		
Discount	5000		
Interest on bank loan	5000		
Salaries	70000		
Cash in hand	7500		
Legal charges	500		
General expenses	8000		
Cash at bank	<u>110000</u>		
	<u>10,00,000</u>		<u>10,00,000</u>

Additional information

- a) Closing stock 1,20,000/-.
- b) Provide for bad & doubtful debts 5% on account receivables.
- c) Interest on bank loan outstanding Rs.8,000/-
- d) Provide depreciation on plant @ 10%.
- e) Outstanding salaries 50,000/-.

- (OR)
4. What is adjusted profit & loss account? How will you prepare it? Explain.

UNIT-III

5. The following is the Balance Sheet of M/s XYZ Ltd for the year ending Dec 31st 2014. (Sales are Rs.10,00,000)

Liabilities	Rs.	Assets	Rs.
Equity share capital	4,00,000	Goodwill	1,50,000
Reserves	40,000	Building	2,00,000
Profit & loss a/c	80,000	Machinery	2,50,000
Debenture	1,00,000	Stock	80,000
Secured loans	1,00,000	Debtors	60,000
Creditors	80,000	Bills receivable	40,000
Provision for tax	50,000	Cash at bank	60,000
Bills payable	50,000	Prepaid expenses	60,000
	9,00,000		9,00,000

You are required to calculate

- (a) Current ratio
- (b) Absolute Liquid ratio
- (c) Gross capital employed
- (d) Quick ratio
- (e) Return on capital employed ratio
- (f) Debt equity ratio
- (g) Proprietary ratio
- (h) Stock turnover ratio

(OR)

6. Prepare a Funds Flow Statement from the following Balance Sheet.

Liabilities	2009	2010	Assets	2009	2010
Share Capital	60,000	65,000	Goodwill	30,000	25,000
P & L A/c	34,000	26,000	Machinery	60,000	50,000
Sundry Creditors	8,000	2,000	Stock	8,000	9,000
Bills Payable	4,000	1,000	Debtors	8,000	10,000
	1,06,000	94,000		1,06,000	94,000

Additional Information

- (i) Depreciation of Rs. 20,000 on Machinery was charged to P & L A/c.
- (ii) Dividends paid Rs. 12,000

UNIT-IV

7. Write an essay on Capital Budgeting Techniques.

(OR)

PART - A

**Note : Answer all questions.
Each question carry equal marks**

5 X 20 = 100 Marks

Unit I

1 A) Define financial accounting. Give a performa of Profit and Loss account and Balance sheet of sole trading concern with imaginary figures. (5+15=20 marks)

(OR)

1 B) Analyse the following transactions and prepare Journal in prescribed format.

- a. Pranav commenced business with a capital of Rs. 500000/-
- b. Bought goods for Rs. 100000/-
- c. Bought goods from Uma enterprises for Rs. 75000/- on account.
- d. Goods sold to Gupta for Rs. 90000/- on credit
- e. Goods sold to Lahari for cash Rs. 60000/-
- f. Purchased Machinery for Cash Rs. 220000/-
- g. Paid into State Bank of India Rs. 55000/-
- h. Received Rent Rs. 3000/-
- i. Withdrawn from Bank Rs. 10000/-
- j. Paid Advertisement charges by cheque 7,500/-

Unit -2

2 A) From the following information prepare Comparative Balance sheet of A Ltd., and comment. (20 marks)

Particulars	30-03-2008	31-03-2009
Equity share capital	10,00,000	12,00,000
12% Debentures	8,00,000	10,00,000
Profit and loss account balance	12,00,000	8,00,000
Land and building	12,00,000	15,00,000
Plant and machinery	10,00,000	10,00,000
Good will	3,00,000	5,00,000
Reserves and surplus	4,00,000	4,50,000
Investments	5,00,000	6,00,000
Long term loans	10,00,000	10,00,000
Stock	10,00,000	8,00,000
Debtors	10,00,000	7,00,000
Current liabilities	6,00,000	6,50,000

Unit 3

3 A) Define working capital. Explain the main sources of financing working capital and what are the main uses of working capital in business. (4+10+6=20 marks)
 (Or)

3 B) From the following Balance sheet you are required to prepare Cash flow statement. (20 marks)

Liabilities	Amount		Assets	Amount	
	2010	2011		2010	2011
Share capital	200000	250000	Good will	30,000	20,000
Debentures	50000	-	Buildings	1,00,000	80,000
Profit and loss a/c	35,000	95,000	Plant	40,000	70,000
General reserve	15,000	17,000	Debtors	1,20,000	1,60,000
Creditors	33000	5,000	Stock	18,000	20,000
Total	323000	3,67,000	Cash	15,000	17,000
			Total	3,23,000	3,67,000

Additional information:
 Depreciation charged during the year on Plant was Rs. 30,000/-and on Building
 Rs. 50,000/-

Unit -4

4A) Define capital Budgeting and explain the various techniques for evaluating the capital Budgeting proposal. (5+15=20 marks)

(OR)

4 B) i) A company has the following capital structure and after-tax cost for the different sources of funds used:

Sources Of Fund	Amount(Rs)	Proportion(%)	After-Tax Cost(%)
Debt	1500	25	5
Preference shares	1200	20	10
Equity shares	1800	30	12
Retained Earnings	1500	25	11
Total	<u>6000</u>	100	

Unit -5

5 A) Explain the concept of CVP Analysis.

5 marks

Define Breakeven point and explain the concepts of Break Even Analysis with the help of diagram.

15 marks

(Cont..)

5 B) From the following data prepare flexible budget for expenses.

Fixed expenses:	Rs. In Lakhs
Wages and salaries	9.5
Depreciation	7.4
Administration expenses	13.1
 Semi variable expenses:	
Repairs and Maintenance	6.3
Indirect labour	11.7
 Variable Expenses: (At 50% level of activity)	
Materials	21.7
Labour	20.4
Other expenses	7.9
Total	98.0

Assume that fixed expenses remains constant for all level and Semi variable expenses remains constant between 45% and 65% and increase by 10% between 65%and 80% and by 20% between 80 and 100% capacity.

Prepare a flexible budget for 50%, 60% ,75% and 100% capacity levels.

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M.C.A II Sem Supplementary Examination, Feb-2015

Subject : COMPUTER ARCHITECTURE
Subject Code: MCA 10205

Exam Time: 3 hrs
Max Marks: 100

Unit I

1. (a) What is a flip - flop? Explain about the different types of flip-flops. (12M)
(b) Simplify the boolean function (8M)

$$F(A,B,C,D) = \sum (0,1,2,4,5,7,11,15) \text{ using Karnaugh map.}$$

(OR)

2. (a) What is a decoder? Construct a 5- to -32 line decoder with four 3- to -8 line decoders with enable and one 2-to -4 line decoder. (10M)
(b) Explain the mechanism of error detection using even parity. (10M)

Unit II

3. (a) What is an instruction format? Explain the instruction format of a 16 bit computer. (12M)

- (b) List all the arithmetic, logic and shift micro operations used in a basic computer. (8M)

(OR)

4. (a) Draw the block diagram of a control unit and explain its function. (15M)
(b) Explain the memory operation of each of the following transfer statements. (5M)

(i) $R2 \leftarrow M[AR]$ (ii) $M[AR] \leftarrow R3$ (iii) $R5 \leftarrow R2$

Unit III

5. (a) Distinguish between hardwired control unit and micro programmed control unit. (8M)

- (b) Write an assembly language program to multiply two positive numbers by repeated addition method. (12M)

(OR)

6. (a) A digital computer has a common bus system for 16 registers of 32 bits each. The bus is constructed with multiplexers. (4M)

- (i) How many selection inputs are there in each multiplexer
(ii) What size of multiplexers are needed.
(iii) How many multiplexers are there in a bus

- (b) Explain the functioning of a micro program sequencer for a control memory, with the help of a block diagram. (16M)

Unit IV

7. (a) Explain about the types of instruction formats ? (4M)
(b) Represent the following instruction using the different instruction formats (16M)

$$X=A*B + C*D.$$

(OR)

8. (a) Explain the Booth's multiplication algorithm with the help of a flow chart and using it multiply -13x12. (20M)

Unit V

9. (a) What is Asynchronous Data Transfer ?Explain the two methods of data transfer. (16M)
(b) Distinguish between isolated I/O and memory mapped I/O. (4 M)
- (OR)
- 10.(a) What is Associative memory. Explain its functionality with the help of a diagram. (20M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (II semester) Pre-final Examination, February 2015

**Subject : Software Engineering
Code : MCA 11301**

**Exam Time : 3 hrs
Max. Marks : 80**

Answer any one from each unit.

UNIT-I

1. a) Explain in detail about Software Engineering Challenges. 10M
b) Explain about Project Management Process. 6M
2. a) List out the various Software Development Process models and explain the Iterative development model in detail. 10M
b) Explain about ETVX approach for process specification. 6M

UNIT-II

3. a) Explain about Requirement Specification, characteristics of SRS. 10M
b) Write about the IEEE structure of SRS. 6M
4. a) Explain about the Component and Connector View (C&C) with an example 10M
b) List out the various Architectural Styles for C & C view. 6M

UNIT-III

5. a) Explain about COCOMO model. 10M
b) Explain about Risk Management. 6M
6. a) Explain about Module level concepts in function oriented design. 10M
b) Explain about Open-Closed Principle. 6M

UNIT-IV

7. Explain about coding process. 16M
8. Explain in detail about Black Box Testing. 16M

UNIT-V

9. a) Explain about Software Reengineering. 8M
b) Explain about Forward Engineering. 8M
10. Explain about Software Process Improvement Process (SPI). 16M

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M.C.A II Sem Supplementary Examination, Feb-2015

Subject : MANAGEMENT INFORMATION SYSTEM

Exam Time: 3 hrs

Subject Code: MCA 10203

Max Marks: 100

Unit I

1. (a) Define the following terms:
(i) System Boundaries
(ii) Systems and Subsystems
(iii) System Entropy
(iv) System Environment
(b) What are the five competitive forces that Information technology can address at firm level?

(OR)

2. (a) Explain the steps needed to solve a problem using systems approach.
(b) Define Business process redesign .Explain the steps in the Business process redesign.

Unit II

3. (a) Explain various software modules in financial accounting system.
(b) Explain Telemarketing systems.

(OR)

4. (a) Explain the tactical and strategic production information system.

Unit III

5. (a) What are the problems in determining information requirements? Give example.
(b) Write a detailed note on critical success factors.

(OR)

6. (a) Explain the phase involved in implementation of a project.
(b) Explain the terms: (i)Software Packages (ii) Prototyping

Unit IV

7. (a) What are the characteristics of decision making process?
(b) Write detailed notes on decision support development life cycle.

(OR)

8. (a) Describe the relation between Artificial intelligence and expert system.
(b) What is expert system? Give its advantages & disadvantages.

Unit V

9. (a) Explain the four types of controls.
(b) List the common threats to computer systems .Explain.

(OR)

10. (a) Distinguish between the terms risks, threat and vulnerability as used in computer installation with suitable examples .
(b) Distinguish between centralised & distributed data processing.

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M.C.A II Semester Examination, August - 2015

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Sub. Code : MCA 10106

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UNIT – I

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M.C.A II Semester Examination, August - 2015

**Subject : Management Information System
Sub. Code : MCA 10203**

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

Answer the following questions

(5*20=100M)

Unit-I

- 1 a) Define System, Sub System and system boundaries. (10M)
b) What are the five competitive forces that information technology can address at firm level. (10M)

(Or)

- 2 a) Explain different levels of MIS. (10M)
b) What is Reengineering? What are the principles of reengineering? (10M)

Unit-II

- 3 Explain accounts and finance Information system and production Information System at Operational level. (20M)
(Or)
4. Explain HRIS and Marketing Information system at Tactical and Strategic level. (20M)

Unit-III

5. Explain BSP and CSF. (20M)
(Or)
6 a) Explain Ends/Means Analysis. (10M)
b) Explain Cost-benefit analysis. (10M)

Unit-IV

- 7 a) Distinguish between MIS and DSS. (10M)
b) What are the characteristics and features of DSS. (10M)
(Or)
8 a) Explain the models for GDSS. (10M)
b) Explain knowledge Management and ESS. (10M)

Unit-V

- 9 a) Explain the Ethical issues of Information system. (10M)
b) How to organize data processing. (10M)
(Or)
10. What are the common threats and common controls for DBMS. (20M)

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M.C.A II Sem Supplementary Examination, Feb-2015

Subject : PRINCIPLES OF O.O.P. USING JAVA
Subject Code: MCA 10202

Exam Time: 3 hrs
Max Marks: 100

Answer the following questions

5 X 20M = 100M

UNIT - I

1. a) Explain Java Features. 10M
b) Explain about final and abstract modifiers. 10M

(OR)

2. Define Package. Explain the process of creating User-defined Packages. 20M

UNIT - II

3. What is an Exception? Explain Exception Handling mechanism in detail. 20M
(OR)

- 4.a) Explain Thread life cycle. 10M
b) Explain PrintWriter class with program. 10M

UNIT - III

5. Explain the following with examples. 20M
(a) Sets (b) Maps

(OR)

6. a) Explain StringTokenizer with an example. 14M
b) Explain about Date class. 6M

UNIT - IV

7. a) Explain ByteStream Classes. 12M
b) Write about File Class. 8M

(OR)

8. Define Serialization. Explain neatly with a program. 20M

UNIT - V

9. Explain in detail about AWT event delegation model. 20M
(OR)

- 10.a) Define Applet. Explain its advantages. 10M
b) Explain Applet Life Cycle. 10M

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MCA II Semester Supplementary Examination, Feb- 2015

Subject : Accounting & financial mgmt
Sub. Code : MCA 10201

Exam Time : 3 hrs
Max. Marks : 100

Note : Answer all questions.
Each question carry equal marks

5 X 20 = 100 Marks

PART - A

Unit I

1 A) Define financial accounting. Give a performa of Profit and Loss account and Balance sheet of sole trading concern with imaginary figures. (5+15=20 marks)

(OR)

- 1 B) Analyse the following transactions and prepare Journal in prescribed format.
- Pranav commenced business with a capital of Rs. 500000/-
 - Bought goods for Rs. 100000/-
 - Bought goods from Uma enterprises for Rs. 75000/- on account.
 - Goods sold to Gupta for Rs. 90000/- on credit
 - Goods sold to Lahari for cash Rs. 60000/-
 - Purchased Machinery for Cash Rs. 220000/-
 - Paid into State Bank of India Rs. 55000/-
 - Received Rent Rs. 3000/-
 - With drawn from Bank Rs. 10000/-
 - Paid Advertisement charges by cheque 7,500/-

Unit -2

2 A) From the following information prepare Comparative Balance sheet of A Ltd., and comment. (20 marks)

Particulars	30-03-2008	31-03-2009
Equity share capital	10,00,000	12,00,000
12% Debentures	8,00,000	10,00,000
Profit and loss account balance	12,00,000	8,00,000
Land and building	12,00,000	15,00,000
Plant and machinery	10,00,000	10,00,000
Good will	3,00,000	5,00,000
Reserves and surplus	4,00,000	4,50,000
Investments	5,00,000	6,00,000
Long term loans	10,00,000	10,00,000
Stock	10,00,000	8,00,000
Debtors	10,00,000	7,00,000
Current liabilities	6,00,000	6,50,000

(OR)

2B) Define Ratio Analysis. Explain the broad classification of Ratios in detail.

(4+16=20)

(P TO)

Unit 3

3 A) Define working capital. Explain the main sources of financing working capital and what are the main uses of working capital in business. (4+10+6=20 marks)
 (Or)

3 B) From the following Balance sheet you are required to prepare Cash flow statement. (20 marks)

Balance sheets as on 31-March- 2008 and 31-March- 2009

Liabilities	Amount		Assets	Amount	
	2010	2011		2010	2011
Share capital	200000	250000	Good will	30,000	20,000
Debentures	50000	-	Buildings	1,00,000	80,000
Profit and loss a/c	35,000	95,000	Plant	40,000	70,000
General reserve	15,000	17,000	Debtors	1,20,000	1,60,000
Creditors	33000	5,000	Stock	18,000	20,000
Total	323000	3,67,000	Cash	15,000	17,000
			Total	3,23,000	3,67,000

Additional information:

Depreciation charged during the year on Plant was Rs. 30,000/-and on Building Rs. 50,000/-

Unit -4

4A) Define capital Budgeting and explain the various techniques for evaluating the capital Budgeting proposal. (5+15=20 marks)

(OR)

4 B) i) A company has the following capital structure and after-tax cost for the different sources of funds used:

Sources Of Fund	Amount(Rs)	Proportion(%)	After-Tax Cost(%)
Debt	1500	25	5
Preference shares	1200	20	10
Equity shares	1800	30	12
Retained Earnings	1500	25	11
Total	6000	100	

Unit -5

5 A) Explain the concept of CVP Analysis.

Define Breakeven point and explain the concepts of Break Even Analysis with the help of diagram. 5 marks

15 marks

(cont..)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Re-Accredited with 'A' Grade by NAAC)

M.C.A II Semester Examination, August - 2015

Subject : Data Structure using C++
Sub. Code : MCA 10204

Exam Time : 3 hrs
Max. Marks : 100

Answer the following questions

(5*20=100M)

Unit-I

- 1 a) Briefly discuss about doubly linked list. (10M)
b) Write notes on circular linked lists. (10M)

(Or)

- 2 Write an algorithm for insertion and deletion in a linear list. (20M)

Unit-II

- 3 a) Define queue. What are the different applications of queue? (10M)
b) Write a program to implement stack operations. (10M)

(Or)

4. a) Discuss about sparse matrices. (10M)
b) Write a C++ program for queue operations. (10M)

Unit-III

5. a) Define binary tree and write its properties. (10M)
b) Explain the operations on AVL Trees. (10M)

(Or)

- 6 a) Explain the operation on B-Tress. (10M)
b) Write a C++ program for implementing Binary Tree Traversal. (10M)

Unit-IV

- 7 a) Explain quick sort with example. (10M)
b) Write a C++ program for Binary Search. (10M)

(Or)

- 8 a) Explain merge sort with example. (10M)
b) Write a C++ program for sequential search. (10M)

Unit-V

- 9 a) Explain about various graph representations. (10M)
b) Discuss briefly about DFS and BFS. (10M)

(Or)

- 10.a) What is Spanning tree? Give an example. (10M)
b) Explain shortest path Algorithm. (10M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Re-Accredited with 'A' Grade by NAAC)

M.C.A II Semester Examination, August - 2015

Subject : Principles of Object Oriented Prog Using Java Exam Time : 3 hrs
Sub. Code : MCA 10202 Max. Marks : 100

Answer the following questions

(5*20=100M)

Unit-I

1 Explain the OOPs concepts. (20M)

(Or)

2 Explain java data types. Write a program in java using array. (20M)

Unit-II

3 Explain the string handling in java. (20M)

(Or)

4. Explain multithreading with example. (20M)

Unit-III

5. Explain collection classes and interfaces (20M)

(Or)

6. Explain string tokenizer. (20M)

Unit-IV

7 Explain byte stream. (20M)

(Or)

8. Explain serializarion. (20M)

Unit-V

9 Explain the applet life cycle with example (20M)

(Or)

10. What are the Layout managers? (20M)

Answer the following questions

(5*20=100M)

Unit-I

1 Explain the OOPs concepts. (20M)

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9 Explain the applet life cycle with example (20M)

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10. What are the Layout managers? (20M)

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Re-accredited with 'A' Grade by NAAC)

MCA II Semester Supplementary Examination, Feb- 2015

Subject : Accounting & financial mgmt
Sub. Code : MCA 10201

Exam Time : 3 hrs
Max. Marks : 100

PART - A**Note : Answer all questions.****Each question carry equal marks****5 X 20 = 100 Marks****Unit I**

1 A) Define financial accounting. Give a performa of Profit and Loss account and Balance sheet of sole trading concern with imaginary figures. (5+15=20 marks)

(OR)

- 1 B) Analyse the following transactions and prepare Journal in prescribed format.
- Pranav commenced business with a capital of Rs. 500000/-
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Unit -2

2 A) From the following information prepare Comparative Balance sheet of A Ltd., and comment. (20 marks)

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(P TO)

Unit 3

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Additional information:

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Unit -4

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Retained Earnings	1500	25	11
Total	6000	100	

Unit -5

5 A) Explain the concept of CVP Analysis.

5 marks

Define Breakeven point and explain the concepts of Break Even Analysis with the help of diagram.

15 marks

(Cont..)

5 B) From the following data prepare flexible budget for expenses.

Fixed expenses:	Rs. In Lakhs
Wages and salaries	9.5
Depreciation	7.4
Administration expenses	13.1
Semi variable expenses:	
Repairs and Maintenance	6.3
Indirect labour	11.7
Variable Expenses: (At 50% level of activity)	
Materials	21.7
Labour	20.4
Other expenses	7.9
Total	98.0

Assume that fixed expenses remains constant for all level and Semi variable expenses remains constant between 45% and 65% and increase by 10% between 65%and 80% and by 20% between 80 and 100% capacity.

Prepare a flexible budget for 50%, 60% ,75% and 100% capacity levels.
