

Masters in Computer Application (MCA) Semester 1

ASSIGNMENT BOOKLET [2]

Assignments for subjects MCA 101, MCA 102, MCA 103,
MCA 104, MCA 105
(for Session January 2015)

Directorate of Distance Education
Punjab Technical University, Jalandhar

Dear Student

The assignment is the important component of our evaluation system and your internal assessment will be based on the assignments. The objective of such assignments is to enable you to comprehend the subject knowledge. The assignments are purposely designed on the lines of examination pattern so as to prepare you for the final examinations. In the entire semester, you will have to attempt **TWO** assignments. Assignment 1 will cover the topics from Unit 1 and Unit 2. Assignment 2 will cover topics from Unit 3 and Unit 4. All assignments are tutor marked assignments and carry 50 marks each. In internal assessment assignment 1 and assignment 2 shall carry the weightage of 20 marks respectively.

As the assignment is integral part of your internal assessment, it is compulsory to attempt the assignment. Therefore, plan well for the attempt of your assignments. Before attempting the assignment, please read **IMPORTANT INSTRUCTIONS** and all questions carefully and then arrange your answers in a rational sequence.

Dear student, please note following points regarding attempt of assignments:

- Assignments should be submitted in your own handwriting.
- Use A4 size plain papers for assignments.
- Carefully follow the instructions and ensure that you have attempted all questions.
- Answers should be correct and neatly written.
- Submit assignment of each subject in a separate file.
- Each assignment should consist of a title page containing the details of the student and subject (Template of title page is attached as **ANNEXURE**. Take print out of that annexure on A4 size page and fill it in your handwriting for each subject.)

Instructions for students regarding Submission of Assignments:

- Before submitting the assignment, please retain one copy of your assignment with you and take receipt of the assignment from your study centre.
- Last date of submitting 2nd Assignment of all subjects is 30th April, 2015.
- Please tag a self addressed A4 size envelope with assignments of all subjects separately.

Work Hard and Perform Well!

INFORMATION MANAGEMENT

MCA-101

IMPORTANT INSTRUCTIONS:

1. SECTION-A All questions are compulsory and each question carries 2 marks.
2. SECTION-B All questions are compulsory and each question carries 10 marks.

SECTION: A

All questions are compulsory and each question carries 2 marks.

1

- a. What is DSS?
- b. Define content management system.
- c. List various formatting that we can apply in Word.
- d. What is a slide show?
- e. What we mean by access control?
- f. What is an E-Mail.
- g. What we mean by security?
- h. Differentiate between MIS and DSS.
- i. List various office automation softwares available.
- j. What is the importance of MIS?

SECTION: B

Q2. Define knowledge management system. Give the nature and scope of business intelligence.

Q3. Explain various characteristics of spreadsheet office automation tool.

Q4. Define MIS. Explain Business Process Re-engineering in detail.

OBJECT ORIENTED PROGRAMMING IN C++

MCA-102

IMPORTANT INSTRUCTIONS:

1. SECTION-A All questions are compulsory and each question carries 2 marks.
2. SECTION-B All questions are compulsory and each question carries 10 marks.

SECTION: A

1.
 - A. Define Inheritance as a feature of Object Oriented Paradigm.
 - B. What are address and reference operators in C++.
 - C. Define Pointers.
 - D. How the variable is dereferenced using pointers.
 - E. What are files in C++.
 - F. Differentiate between early and late binding.
 - G. What is polymorphism?
 - H. What are virtual and pure virtual functions?
 - I. How files are opened and closed in C++.
 - J. What do you mean by Dangling or wild pointer.

SECTION: B

- Q1. Describe various types of inheritance in C++ using individual programs of each.
- Q2. A) Write a program to show overloading of functions.
B) Write a program to overload ++ operator in C++.
- Q3. Write a program using file handling to copy the contents of one file to another.

COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE

MCA-103

IMPORTANT INSTRUCTIONS:

1. SECTION-A All questions are compulsory and each question carries 2 marks.
2. SECTION-B All questions are compulsory and each question carries 10 marks.

SECTION: A

1

- a. What is cache coherence?
- b. What are the different levels of cache?
- c. What is segmented page mapping?
- d. Define multiprocessor memory.
- e. What are various characteristics of multiprocessors?
- f. Define a register.
- g. What are machine control instructions used in 8085?
- h. What is virtual memory?
- i. Describe interprocessor communication.
- j. Explain any two program control instructions used in 8085.

SECTION: B

- Q2. Explain the three cache mappings in detail.
- Q3. Describe various interconnection structures with neat diagram.
- Q4. Elaborate about various addressing modes used in 8085 with examples.

ACCOUNTING AND FINANCIAL MANAGEMENT

MCA-104

IMPORTANT INSTRUCTIONS:

1. SECTION-A All questions are compulsory and each question carries 2 marks.
2. SECTION-B All questions are compulsory and each question carries 10 marks.

SECTION: A

All questions are compulsory and each question carries 2 marks.

1.
 - a. Define auditing.
 - b. Define marginal costing.
 - c. Define Budgetary control.
 - d. Define variance.
 - e. Give the limitations of break even analysis.
 - f. List basic principles of costing.
 - g. List various limitations of break even analysis.
 - h. List advantages of using computerized accounting.
 - i. What is the importance of studying costing?
 - j. What is the importance of marginal cost?

SECTION: B

All questions are compulsory and each question carries 10 marks.

2. List various Computer Programs available for accounting. What we mean by Computer based Auditing?
3. What we mean by Break even analysis? What are its uses? How can we construct break even chart?
4. What is Standard costing? Also give its nature and scope.

TECHNICAL COMMUNICATION

MCA-105

IMPORTANT INSTRUCTIONS:

1. SECTION-A All questions are compulsory and each question carries 2 marks.
2. SECTION-B All questions are compulsory and each question carries 10 marks.

SECTION: A

All questions are compulsory and each question carries 2 marks.

1.
 - a. Distinguish between Resume and CV.
 - b. What is a downward memo?
 - c. List 4 advantages of E-mails.
 - d. Name various types of reports.
 - e. Explain briefly the meaning of dissertation.
 - f. Difference between reference and bibliography.
 - g. What is the difference between an oral presentation and a speech?
 - h. Discuss the role of body language in presentation.
 - i. Define a mock interview.
 - j. List some of the commonly used evaluation parameters for GD.

SECTION-B

All questions are compulsory and each question carries 10 marks.

2. In recent months, your company staff has not been punctual in reporting for work. Your General Manager has taken note of this worrying trend. In the capacity of HR executive,

write a memo to your company staff ensuring that your message is clear, concise, courteous and complete. Include in your memo:

- a. The importance of being punctual.
 - b. A table or graph explaining the trend of latecomers.
 - c. Some recommendations on how they can be punctual
-
3. What are the various strategies to make a presentation more effective? Support your answer with appropriate illustrations.
 4. Draft an application along with a resume in response to the following advertisement in 'The Times of India' dated March 20, 2015.
Applications are invited for the post of a Computer Engineer. Should be well qualified for the post, with fluency in English and Hindi. Candidate with experience in the line would be preferred. Apply within 15 days to the General Manager, HCL Technologies, Gurgaon.

ANNEXURE

Title Page of Assignment

1	Name of the Student	
2	Registration Number	
3	Assignment Number (1/2)	
4	Subject Name	
5	Subject Code	
6	Date of Submission	

Signature of Student

Signature of Coordinator

FOR OFFICE USE

Total Marks obtained: _____

Evaluated by: _____

(Signature of evaluator)