



Roll No. 104 1736

Diploma in Computer Application

(First Semester) EXAMINATION, 2010 ESSENTIALS OF INFORMATION TECHNOLOGY

(DCA-101)

Time: Three Hours |

Maximum Marks: 100

| Minimum Pass Marks: 33

Note: Question No. 1 is compulsory. Attempt any four questions from the remaining. All questions carry equal marks.

- 1. Choose appropriate answer from the following. 20
 - (i) Which of the following is not an output device?
 - (a) Touch Screen
 - (b) Printer
 - (c) Flat Screen
 - (d) Scanner
 - (ii) Which of the following devices have a limitation that we can only information to it but cannot erase or modify it?
 - (a) Floppy Disk
 - (b) Hard Disk
 - (c) Tape Drive
 - (d) CDROM

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(iii)	Which	of	the	to le	wing	SICTAGE	devices	can	store
	тахит	n)	amet	ini ol	data	?	į.		

- (a) Floppy Disk
- (b) Hard Disk
- (c) Compact Disk
- (d) Magneto-optic Disk
- (v) The programs which are as permanent as hardware and stored in ROM is known as ;
 - (a) Hardware
 - (b) Software
 - (c) Firmwate
 - (d) ROMware
- (v) Memory is made up of :
 - (a) Set of wires
 - (b) Set of circuits
 - (c) Large number of cells
 - (d) All of these
- (vi) Primary memory stores:
 - (a) Data alone
 - (b) Programs alone
 - (c) Results alone
 - (d) All of these
- (vi.) EFROM can be used for :
 - (a) Erasing the contents of ROM
 - (b) Reconstructing the contents of ROM
 - (c) Erasing and reconstructing the contents of ROM
 - (d) Duplicating ROM

(viii	Which device can understand difference between d	ata
	and programs?	

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- (a) Input device
- (b) Output device
- (c) Memary
- (d) Microprocessor

(ix) Algorithm and Flowchart help us to :

- (a) Know the memory capacity
- (b) Identify the base of a number system
- (c) Direct the output to a printer
- (d) Specify the problem completely and clearly
- (x) Memory unit is one part of :
 - (a) Input device
 - (b) Control unit
 - (c) Output device
 - (d) Central processing unit
- (a) What is random access memory (RAM)? Discuss the different types of random access memories.
 - (b) Differentiate between fixed length words and variable length words.
 10
- (a) Write an algorithm to find the greatest of two numbers.
 - (b) Distinguish between high level language and assembly language. Give relevant examples. 10
- What do you understand by multi-user operating
 system?
 - (b) Write any ten different features of Windows operating system.

P. T. O.

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	W	Sort the given values using quick sort:	10
10	11:3	65 70 75 80 85 60 55 50 45	
	9	Whether Linked list is linear or Non-linear structure?	data 10
*	11/5	What are the services available on Internet ? Exp	olain.
//	Na,		10
	(b)	What is JAVA and what can JAVA technology do	? 10
7.	(a)	What are the benefits of E-mail? How can you pr	otect
4.	457	your e-mails from virus ?	10

(b) Distinguish between Micro, Mini, Mainframe and

Super Computer.

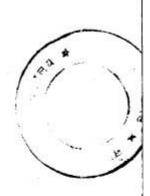
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Diploma in Computer Application (First Semester) EXAMINATION, 2010

ESSENTIALS OF OFFICE AUTOMATION

(DCA-102)

Time: Three Hours]

[Maximum Marks : 100

Minimum Pass Marks: 33

Note: All Units are compulsory. Attempt any two parts from each Unit. All parts carry equal marks.

Unit-I

- 1. (a) What is match operation? Specify its features.
 - (b) What do you understand by Water mark feature in Word? Describe.
 - (c) Describe various aspects of Print Control in MS-WORD 2007.

Unit-II

- 2. (a) Point out the features of electronic worksheet.
 - (b) Give five mathematical and statistical functions available in MS-Excel.
 - (c) What do you understand by Macro? Explain its types.

P. T. O.

Unit-III

- 3. (a) How a record in a database file can be accessed and retrieved?
 - (b) Write short notes on the following:
 - (i) Programming Preliminaries
 - (ii) Browsing
 - (iii) Report making
 - (c) Clearly specify the features of indexing and sorting.

Unit-IV

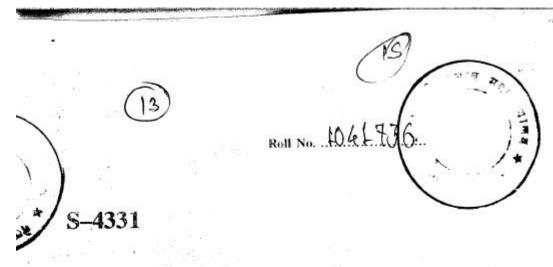
- 4. (a) Define system and specify its features.
 - (b) Explain feasibility report with a case study.
 - (c) Write short notes on the following:
 - (i) Cost benefit ratio
 - (ii) Water life cycle model

Unit-V

- (a) What do you understand by entity? Differentiate between weak cutity and strong entity.
 - (b) Write short notes on the following:
 - (i) System Implementation
 - (ii) Evaluation
 - (c) Discuss the benefits of computer aided software engineering.

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Diploma in Computer Application (First Semester) EXAMINATION, 2010

PROGRAMMING IN C LANGUAGE

(DCA-103)

Time : Three Hours]

| Maximum Marks : 100

[Minimum Pass Marks : 33

Note: Answer any two parts from each question. All questions carry equal marks.

- (a) What are different types of operators? Explain 5 of them.
 - (b) Explain the working of printf () and scanf () functions with their respective syntax and examples.
 - (c) Explain the syntax and working of the following library functions:
 - (i) pow()
 - (ii) getch()
 - (iii) exit()
 - (iv) getcar()
- 2. (a) What is Function? Write five built-in functions for string manipulation. What are the different ways to pass argument to the function?

P. T. O.

- (b) Explain the syntax of the switch case construct. Write a menu driven C' program using switch case to take 2 integers as input and print the Sum, Difference or Product depending upon the choice provided by the user.
- (c) Write a recursive function to obtain first 25 numbers of a Fibonacci series. The following are few terms of Fibonacci series:

1 1 2 3 5 8 13 21 34 55

- 3. (a) How does an array definition differ from that of an ordinary variable ? What is a string? How are multi-dimensional arrays defined?
 - (b) Write a C program to find sum of odd numbers and even numbers in an array of numbers.
 - (c) Write a C program to calculate sum of all numbers in a given matrix using pointers.
- 4. (a) What is a structure? How is it different from an array? Write a 'C program using a structure for information of books in a library having a member date as another structure.
 - (b) Define a union time having members house, minutes and seconds. Write a 'C' program to input a time (eg. 10 in: 4 min: 50 seconds) and output in any one of the units only.
 - (c) What are the various functions used for input and output into a binary file? What is the significance of fseek() and ftell() function?
- 5. (a) Explain different file handling functions in C.

- (b) Write a 'C' program to create a student file which has fields roll no., name, semester, branch and percentage. List all the students who secured 1st, 2nd and 3rd division.
- (c) What is an object model? What are its benefits? Explain the term abstraction and encapsulation with respect to OOP techniques.

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