NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF APPLIED SCIENCE

COMPUTER SCIENCE DEPARTMENT

MAYEXAMINATIONS 2001

SUBJECT:	
CODE	

INTRODUCTION TO COMPUTER SCIENCE – ENGINEERING STUDENTS CODE: SCS 1007

INSTRUCTION TO CANDIDATES

- Answer three (3) questions from part A and (3) questions from Part B
- Clarity of answer carries marks.
- 3. Maximum marks - 100

Time: 3 hours

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- What are the features of third generation and fourth generation computers? a) Write their advantages and disadvantages? [5]
- Define the following terms with two examples for each: b)
 - i) Hardware
- Software
- Input device
- iv) Output device
- High level language
- vi) Assembly level language

[12]

QUESTION 2

- Explain with a block diagram the working of a Digital Computer. [8] a)
- b) How the computers are classified and name them?

[8]

QUESTION 3

- What is meant by a primary memory and a secondary memory? Give at least a) three examples for each.
- What are the applications of computers? Explain any two of them in detail? b)
- c) What is a computer virus? How do you prevent or cure the computer virus?

[4]

QU	ESTIC					
a)	Ex	plain the difference types of operating systems? Give at least t	wo examples			
	tor each?		[8]			
	ett.	[o]				
b)	Bring out the differences between single user operating system and multi-user					
	ope	rating system? Give examples for each?	[8]			
			(-)			
QU	ESTIO	N 5				
a)	a) What is meant by booting of a system? Name the type of booting methods?					
			[6]			
b)	Writ	te the commands to perform the following on MS-DOS:				
	i) 	Change Directory	[2]			
	ii)	To create a directory .	[2]			
	iii)	To check date and time	[2]			
	iv)	Types of directory commands	[2]			
	v)	Copy a file from "A" drive to "c" drive	[2]			
			tJ			
		PART B				
QUE	STION					
a)	What	is a flow chart? Write the different types of symbols used to d	evelop a			
	flow chart?		[6]			
			.,			
b)	Bring	out the comparison between an Interpreter and a compiler?	[4]			
			(')			
c)	What	are the characteristics of a program?	[4]			
			r.,1			
d)	Write	the procedure to logon to Windows NT Operating system?	[3]			
		<u> </u>	r- J			

QUESTION 2

- a) What is an identifier and a keyword, give two examples for each? [6]
- b) What are the data types supported by 'C' programming language, give examples to each? [6]
- c) Write an algorithm, flowchart and program to find sum, division and average of four real numbers?

QUESTION 3

- a) Explain the functions getchar() and putchar() function with an example? [6]
- b) Write the Relational and Logical operators supported by 'c' with their Syntax? [5]
- c) What is the output of the following program?

```
# include,stdio.h.
# include <math.h>
```

printf (" (a+b) *c/b+c) = %d", (a+b) *c/(b+c));

QUESTION 4

}

- a) What are the control statements supported by "C". Write their syntax?
 - [10]

[6]

c) Write a program to print the multiplication table using do----while loop?

[5]

QUESTION 5

a)

[6]

What is an array and a function? Give examples?
Write a program to find the smallest number in an array? b)

[5]

Write a program to find the addition of two matrices A & B. c)

[6]

END OF QUESTION PAPER