

# NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution affiliated to VTU, Belgaum)

II Sem B.E. (Credit System) Mid Semester Examinations – 1 March 2013

12CS111 – COMPUTER CONCEPTS AND C PROGRAMMING

Duration: 1 Hour

Max. Marks: 20

Note: Answer any **One** full question from each Unit.

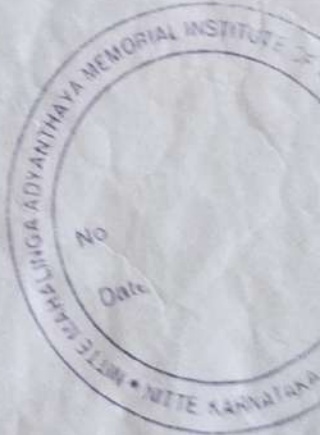
## Unit – I

- a) Define an Identifier? List out the rules to be followed for naming an Identifier. 3
- b) Explain formatted output function with syntax and example. 4
- c)  $x = a - b / 3 + c * 2 - 1;$   
 $y = a - b / (3 + c) * (2 - 1);$   
 $z = a - (b / (3 + c) * 2) - 1;$   
 where  $a = 9$ ,  $b = 12$ ,  $c = 3$ ;  
 With the data given above write a C program to display the value of x, y and z and display the output. 3
- a) With the Block diagram explain Information Processing Cycle. 3
- b) Define precedence and associativity. Write precedence and associativity of arithmetic operators with an example. 4
- c) Evaluate the following expression where  
 $(-b + \sqrt{b^2 - 4ac}) / (2a)$  When  $a=4$ ,  $b=-8$ ,  $c=5$  3

## Unit – II

- a) Explain different types of printers. 4
- b) Write a C program to find the roots of a quadratic equation  $ax^2 + bx + c = 0$ , using else if ladder. 6
- a) Along with example explain different types of type conversion. 4
- b) Mention different C tokens. Write a C program to find greatest among three numbers using conditional operator. 6

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C1-H

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**II Sem B.E. (Credit System) Mid Semester Examinations – II, April 2013**  
**12CS111 – COMPUTER CONCEPTS AND 'C' PROGRAMMING**

Duration: 1 Hour

Max. Marks: 20

Note: Answer any **One** full question from **each Unit**.

**Unit – I**

- a) Explain general syntax of nested if...else statement with flowchart and give the example. 6
- b) Write a C program to find the sum of all the digits and occurrence of a digit in the number. 4
- a) Write a C program to find the sum of sine series and the result of inbuilt sine function. 6
- b) Explain general syntax of switch statement along with rules. 4

**Unit – II**

- a) Explain function definition with general syntax and example. 4
- b) Write a c program to transpose a matrix of the order M x N and find the trace of the resultant matrix. 6
- a) Write a C program using function to perform a linear search for a given integer in a single dimensional array of number and report success or failure in the form of suitable message and mention different categories of user defined functions. 6
- b) Explain compile time and run time initialization along with an example. 4

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**NMAM INSTITUTE OF TECHNOLOGY, NITTE***(An Autonomous Institution affiliated to VTU, Belgaum)***II Sem B.E. (Credit System) Mid Semester Examinations – I March 2013****12HU114 – ENGLISH AND COMMUNICATION SKILLS**

on: 1 Hour

Max. Marks: 20

- Note: i) Answer the following questions.  
ii) Question No. 1 & 3 are compulsory.

Transcribe the following words into IPA.

Thief, June, sharp, call, curd, treasure, that, sing, year, chain, got, hair, how, toe, cure,  
toil, might, silly, cut, hook

5

Explain with the graphic representations stress patterns and Intonation patterns.

5

**OR**

Explain with the graphic representation State, Event, Habit and their temporary aspects  
referring to present time and tense.

5

Write a business letter involving all the points for letter writing. Prepare a CV of your own  
presuming that you have atleast 5 years experience after graduation.

10

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**II Sem B.E. (Credit System) Mid Semester Examinations – II, April 2013**

**12HU114 – ENGLISH AND COMMUNICATION SKILLS**

Max. Marks: 20

Note: i) Answer the following questions.  
ii) Question No. 2 & 3 are compulsory.

What are the necessary inputs for a 'front matter' of a report or a book? Explain with examples.

10

OR

What are the essentials of the 'body and back matter' of an interpretative report? How is it different from informative report? Explain with examples.

10

Draft an agenda for a meeting and write the minutes of the meeting on the agenda as drafted by you.

5

Explain in detail the essentials of paragraph writing and the types of paragraphs.

5

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