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Code: 061101

B.Tech 1st Semester Exam., 2015

FUNDAMENTAL OF INFORMATION TECHNOLOGY

Time: 3 hours

Full Marks: 70

Instructions:

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.
- Answer the following as directed (any seven): $2 \times 7 = 14$
 - What are static RAM and dynamic RAM?
 - (b) What is a search engine?
 - (c) What is Internet?
 - √dy What is a token in C?
 - (e) What is an identifier?
 - (f)) If an array is declared as arr $[] = \{1, 3, 5, 7, 9\}$ then what is the value of size of (arr [3])?
 - (i) 10

(ii) 20

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(iii) 30

(iv) 40

(Choose the correct answer)

(Turn Over)

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A function that uses another function is known as _____. (Fill in the blank)

The ____ statement is used to skip statements in a loop.

(Fill in the blank)

- Tenary operator operates on how many operands?
 - (i) 1
 - (ii) 2
 - (iii) 3

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- (iv) 4 (Choose the correct answer)
- What does a scanf() function return?
- Write a note on operators available in C 14 language.
- 3/ (a) Write a note on data types that C language supports.
 - difference Explain the between declaration and definition.
- 4/ What are decision control statements? Explain in detail.
- With the help of an example, explain dangling if-else problem.
 - Write a note on GOTO statement. Why should it be avoided?

(Continued)

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6

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6.	(a)	Write a function to reverse a string using recursion.	7
	(b)	Differentiate between call by value and call by reference using suitable examples.	7
7.	(a)	Write a program to input an array of 10 numbers and swap the value of the largest and smallest numbers.	7
	(b)	Explain how one-dimensional and two-dimensional arrays are initialized. What happens when an array is initialized with— (i) fewer initialisers as compared to its size; (ii) more initialisers as compared to its	
		size?	7
.	(a)	//Discuss the different generations of computers.	7
	(b)	What are different types of memory available in a computer Explain each type briefly.	7
9	. (a)	language, pseudocode and algorithms.	7
	(b)	Write a note on mobile communication.	7
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