#### 2015

### COMPUTER FUNDAMENTALS & **PROGRAMMING**

Paper: 1.4

Full Marks: 60

Time: 21/2 hours

# The figures in the margin indicate full marks for the questions.

#### PART - A

## Answer any four from Part-A.

- 1. (a) Define a computer. What are the major components of a computer?
  - (b) Define bootstrapping.

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- What do you mean by algorithm? Why (c) it is important?
- Define number system. What are ASCII (a) and EDCDIC? 1+4=5
  - What are keywords and identifiers? (b) Explain with proper example.

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Contd.

	(c)	Define L-value.	2		(b)	Write a program in C to find smallest
3.	(a)	What are arithmetic and logic operators? Give example of so binary and unary operator.			(c)	number among three numbers. 3  Define string. How it is stored in C?
	(b)	Define array. How do we declare array? Give example.	an 3	7.	(a)	What are associativity? Explain the operator precedence. 2+3=5
	(c)	Define structure. Give example.	2		(b)	Distinguish between call by reference and call by values.
4.	(a)	Define functions. What are the roles printf () and scanf () functions. Def format conversion. 1+3+2	fine		(c)	What is an user-defined function?
	(b)	Define a pointer. How it is declared	d 2			PART - B
		A H HHAR BANK TO STATE	3			Answer any four. 4×5=20
	(c)	Define looping.	1	8.	(a)	Write a C-program to copy the content of one text file to another.
5.	(a)	What is the main difference between do while and while loop? Explain we example.			(b)	Write a program to implement linear search algorithm.
	(b)	What are automatic and extern storage classes?	nal 4		(c)	Write a program to sort elements using bubble sorting.
	(c)	Define Compiler & Assembler.	2		(d)	Write a program to add two matrices
6.	(a)	Convert the following: 2×2  (i) (223.82), to octal.	2=4		(e)	Write a program to reverse a digit of a integer.
		(ii) (18:32) <sub>8</sub> to Hexadecimal.				
52 (1) CFPR 1·4/G 2				52 (	(1) CF	PR 1-4/G 3 20