

Code : 061101**(2)****B.Tech 1st Semester Exam., 2014****FUNDAMENTALS OF INFORMATION TECHNOLOGY****Time : 3 hours****Full Marks : 70****Instructions :**

- (i) All questions carry equal marks.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer/Choose the correct answer/Fill in the blanks of the following (any seven) :

- (a) C programming language is a/an
 - (i) high-level language
 - (ii) low-level language
 - (iii) assembly-level language
 - (iv) All of the above
- (b) Which of the following is not a part of CPU?
 - (i) HDD
 - (ii) Processor
 - (iii) SMPS
 - (iv) UPS

- (c) RAM stands for
 - (i) Random Access Message
 - (ii) Random Access Memory
 - (iii) Random Access Machine
 - (iv) Regular Access Memory
- (d) Which of the following is not an operating system?
 - (i) Windows
 - (ii) Fedora
 - (iii) Ubuntu
 - (iv) Mozilla
- (e) How many bits one gigabyte equals to?
- (f) Which of the following is not a processor?
 - (i) Core i5
 - (ii) Intel PIV
 - (iii) IBM 360
 - (iv) None of the above
- (g) Unit of measuring processor speed is —.
- (h) Apache is a
 - (i) Web Client
 - (ii) Web Server
 - (iii) Browser
 - (iv) None of the above

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(i) Binary form of 11 will be —.

(j) DNS stands for —.

2. (a) What is flowchart? What is the significance of using a flowchart? Discuss with proper illustration different types of symbol used in flowchart. Draw a flowchart to find out the smallest of three numbers.

(b) What are variables and constant in C programming language? What are the ranges of different variables in C programming language? Give one example for each variable type usage with proper justification in favour of your decision for that using that type of variable.

3. (a) Discuss different types of computer system that existed over different generations.

(b) Write a C program for currency conversion to INR based on following table :

Dollar	70 INR
Pound	100 INR
AUD	65 INR
Ruble	20 INR

4. (a) Write a C program to input string "ARYA KUMAR" and print it on the screen.

(b) What do you mean by memory hierarchy? Compare among different level memories.

5. (a) What are different types of loop in C program? Discuss and compare between each type of loop with proper code snippets.

(b) Write a C program to print all prime numbers till 1000.

6. (a) Write a C program to implement a simple calculator program which is capable of doing the basic arithmetic operation over two numbers.

(b) What are different types of decision-making options available in C programming language? Discuss each type with proper code illustration.

7. (a) Write a C program which will input a string in lower case and will print the output in upper case.

(b) What do you mean by e-commerce? What are the benefits of using this from both user and provider perspective?

8. Define one- and two-dimensional arrays of C programming language. Write a C program to store the following information in a two-dimensional array :

1	2	3	4
2	4	6	8
3	6	9	12
4	8	12	16

9. Write short notes on any *two* of the following :

- (a) Algorithm
- (b) Web Browser
- (c) Data Over Internet
