

C 129

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2009.

FIRST SEMESTER

CS 16 — FUNDAMENTALS OF COMPUTING AND PROGRAMMING

(Common to all B.E./B.Tech. Degrees)

(REGULATION 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Why computer is known as data processor?
2. What is cache memory? How is it different from primary memory?
3. Difference between web page and web site.
4. What is the difference between interpreter and compiler?
5. What are rules for pseudocode?
6. Write algorithm to print biggest of three numbers.
7. What is the purpose of main ()?
8. What is an argument? Differentiate between formal arguments and actual arguments.
9. How a variable is declared to be a pointer?
10. Why use arrays?

11. (a) (i) Explain in detail the characteristics of Computers. (8)
- (ii) Discuss in detail the classification of computers. (8)

Or

- (b) Write short notes on:
- (i) Memory of a computer
- (ii) Secondary storage devices. (8 + 8)
12. (a) Discuss about the different steps involved in the software development. (16)

Or

- (b) How the software are classified. Explain each with relevant example. (16)
13. (a) What is the difference between an algorithm and pseudocode? Also write an algorithm and pseudocode for solving a quadratic equation. (16)

Or

- (b) (i) Explain any eight formatting features with suitable example. (8)
- (ii) Explain application of software packages. (8)
14. (a) Describe various data types in C.
- (b) Describe any four I/O statements of 'C'. (8 + 8)

Or

- (c) Draw a flowchart and write a C program to print student grade using structure. (16)
15. (a) Write C program to read and write employee and their date of joining using nested structure. (16)

Or

- (b) (i) Describe what is meant by passing by reference. Explain with your own example.
- (ii) Describe how to declare a two dimensional array using pointers. And write a for loop to store information and later modification to the declared pointer. (8 + 8)