

OCTOBER 2011

P/ID 17407/RBH

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) What is set? With examples discuss the operations on sets.

Or

- (b) Compare repeat until and while-do statements.

2. (a) What is a function? How do function and procedure differ? Discuss with an example.

Or

- (b) What do you mean by structured data type? Discuss with an example.

3. (a) List the different operators available in C. Discuss any two.

Or

- (b) With an example, discuss the operation of a for loop.

4. (a) Write a short note on string handling functions.

Or

- (b) What is a pointer? Discuss the use of pointers.

5. (a) What is a file? Discuss the different file operations.

Or

- (b) Write a short note on formatted file I/O.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. With examples discuss the different data types of Pascal.
7. (a) What do you mean by dynamic data structure? Discuss with examples.
(b) What is an array? With an example discuss how strings are stored in an array.
8. Write a Pascal program to read a five digit number and print it out digit by digit as a series of words.

9. Write a C program that examines all the numbers from 1 to 999, displaying all those for which the sum of the cubes of the digits equals the number itself.
10. With example discuss the flow of control of C programs.
 - (a) Iterative constructs
 - (b) if-then-else.
11. What is a structure? Discuss the application of structure with examples.
12. Write short notes on the following :
 - (a) Pre-processor
 - (b) Union.
13. Write a C program to change all upper case characters in a file to lowercase and vice versa.
