B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Fifth Semester

Branch : Civil Engineering

CE 010 502 – COMPUTER PROGRAMMING (CE)

(New Scheme – 2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours　　　　　　　　　　　　　　　　　　　Maximum : 100 Marks

Part A

*Answer **all** questions.*
Each question carries 3 marks.

1. How does Switch statement differ from Nested if ?

2. Give a syntax for 'do-while' statement. Give an example.

3. Define Arrays.

4. How to define a union in C ?

5. Define error handling function.

(5 × 3 = 15 marks)

Part B

*Answer **all** questions.*
Each question carries 5 marks.

6. What is the data type ? Explain the various types of data types.

7. Explain nested for loop statement with suitable example.

8. Define Structure in C. Give an example for structure definition.

9. Explain linked list.

10. Write down the syntax for file opening and closing. Explain it.

(5 × 5 = 25 marks)

Part C

*Answer **all** questions.*
Each full question carries 12 marks.

11. Write a C Program to print prime numbers between 1 and 100.

Or

12. What is the use of operators in C. List out various types of operators used in C ? Explain their working rule, priorities and associativity.

Turn over

13. Explain the difference between 'while' and 'do while' with an example program.

Or

14. Explain 'pass by value' and 'pass by reference' with suitable examples.

15. Explain and write a program for 'searching a particular element from a given array'. .

Or

16. Explain sorting of strings in detail.

17. Define and declare a structure to store date, which including day, month and year.

Or

18. Compare structure and union with suitable examples.

19. Explain the concept of FILE Handling. WAP to create a file read the file and write on file. Also explain any 10 File handling pre-defined function corresponding syntax.

Or

20. Write a short note on : (i) Error handling function ; (ii) Command line arguments.

$(5 \times 12 = 60 \text{ marks})$