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Question Paper Code: 41106

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

First Semester

Civil Engineering

14UCS106 - COMPUTER PROGRAMMING

(Common to ALL Branches)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The capacity of 3.5 inch floppy drive is
(a) 1.40 MB (b) 1.44 MB (c) 1.44 GB (d) 1.40 GB
2. The first general purpose electronic digital computer
(a) UNIVAC (b) EDVAC (c) ENIAC (d) All the Above
3. Which of the following are token in C?
(a) Keywords (b) Variables (c) Constants (d) All the Above
4. The case keyword is followed by
(a) float values (b) integer values (c) character values (d) both b and c
5. Identify the scalar data type in C
(a) Array (b) Union (c) Function (d) Double
6. Which of the following is not a built in functions in C?
(a) getchar (b) putchar (c) gets (d) get_ select_str

7. A variable declared inside a function is _____
(a) Local (b) Global (c) General (d) Extern
8. What is (void*)0?
(a) Null pointer (b) Void pointer (c) New pointer (d) All the Above
9. Which of the following cannot be a structure member?
(a) Another Structure (b) Function (c) Array (d) None
10. Which of the following are themselves a collection of different data types?
(a) String (b) Structure (c) Char (d) All the above

PART - B (5 x 2 = 10 Marks)

11. What is the difference between primary memory and secondary memory?
12. Define: structured programming.
13. Write a program in C to get ten numbers and print the same numbers in reverse order?
14. What is function prototype?
15. Write the roles of preprocessor directives?

PART - C (5 x 16 = 80 Marks)

16. (a) Discuss in detail about
(i) Generation of computers
(ii) Different classification of computers in detail. (16)
- Or
- (b) (i) Draw a flowchart for finding the given integer is Armstrong or not. (8)
(ii) Write a Pseudo code for generating Fibonacci series of numbers. (8)
17. (a) (i) Write about the structure of C program in detail. (8)
(ii) Explain the various data types and operators in C. (8)

Or

(b) Write a C Program for Matrix

(i) Addition

(ii) Multiplication

(iii) Inverse

(iv) Transformation.

(16)

18. (a) Discuss about arrays and its various dimensions with example programs in detail.

(16)

Or

(b) (i) Write the drawbacks of linear search explain the algorithm with proper examples. (6)

(ii) Create user defined functions to check and join the various strings of different combinations. (10)

19. (a) (i) Write a C program to simulate a calculator using various functions like with and without argument, with and without return values. (10)

(ii) Explain the various storage classes of C. (6)

Or

(b) (i) Explain about (1) the rules for pointers arithmetic (2) Arrays of pointers. (8)

(ii) Write a C program to simulate a simple storage mechanism like either stack or queue using dynamic memory allocation methods. (8)

20. (a) Write a C program for library management using structures and unions. (16)

Or

(b) Discuss about the file processing in C with example programs. (16)

