



I Semester B.Tech. Examination, Feb./March 2010
COMPUTER PROGRAMMING IN C

Time : 3 Hours

Max. Marks : 80

Instructions : Answer *all* questions in Part A, **6** out of 8 questions in Part B and **3** out of 5 questions in Part C.

Part A : Questions from **1** to **8** carry **1** mark *each* and **9** to **14** carry **2** marks *each*.

Part B : *Each* question carries **5** marks.

Part C : *Each* question carries **10** marks.

PART – A

1. Which of the following is not a data type ?
A) if B) short C) void D) sum
2. If a is a integer variable, a = 5/2 will return a value
A) 2 B) 2.5 C) 0 D) None of the above
3. In the expression, flag = (i < 0) ? 0 : 100 what is the value of flag when i = 5 ?
A) 0 B) 100 C) flag D) None of the above
4. Which of the following is the Boolean operator for logical-AND ?
A) & B) && C) | D) |&
5. If a character string is to be received through the keyboard which function would work faster ?
A) scanf() B) gets() C) putchar() D) None of the above
6. Which of the following commands echo the character typed to the screen without waiting for enter key press ?
A. get() B) getche() C) getchar() D) All of the above
7. Which is not a loop structure ?
A) For B) Do while C) While D) Repeat Until
8. What is the return type of the function with prototype: "int func(char x, float v, double t);" ?
A) char B) int C) float D) double

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9. Declare a character variable c and initialize it to value d.
10. State four relational operators with its meaning.
11. State two commands to read a character and two commands to write a character.
12. What is difference between while and do-while loops ? Why loops are necessary ?
13. Can the break statement be used without switch case statement? Justify your answer.
14. In the given array what is the initialized values of 3,4 and 5 element of array ?
`float x[5] = {1.2, 6.9, 4.1};`

PART – B

1. What is an operator ? Describe usage of logical AND operator with an example.
2. Write a program to read a character from user and to check whether the entered character is vowel, last alphabet or consonant.
3. Can any of the three initial expressions in the for statement be omitted ?
If so, what are the consequences of each omission ?
4. Explain 'continue' statement with an example.
5. Give syntax of goto statement. How it is used in the loop ? Explain with an example.
6. Distinguish between formal and actual parameters. Explain with an example for each.
7. What is the difference between function header and function body ? Explain the syntax of function header and function body.
8. Write a program to reverse the given integer number. (e.g. input : 2356, the reverse is 6532)



PART – C

1. Write a C program to accept the ages of ten different men from user and find out who is the eldest among all.
 2.
 - a) Write a program to read ten integer from user and find average and sum of it.
 - b) Distinguish between formatted and unformatted input and output statements. Give an example for each.
 3. Explain the working of do – while loop with example.
 4. Write a program to print first 10 odd numbers and first ten even numbers using while loop
 - a) Initialize an one dimensional integer array of size. Write a program to read values into this array from keyboard and to display the values on the screen.
 - b) What is the purpose of return statement in a function? Give an example of void return and int return functions. Can any function return float value ?
 5. Explain with an example
 - a) Functions with no arguments and no return value
 - b) Functions with arguments but no return value.
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