

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- 1st / 2nd • EXAMINATION – SUMMER • 2014

Subject Code: 110003**Date: 23-06-2014****Subject Name: Computer Programming and Utilization****Time: 02:30 pm - 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|-------------|--|-----------|
| Q.1 | (a) What is Flowchart and Algorithm? Draw flowchart to print sum of numbers between 1 to 100 which are divisible by 3 and 5. | 07 |
| | (b) State and explain features of C language. | 04 |
| | (c) Explain types of languages used. | 03 |
| Q.2 | (a) Explain different types of operators with examples. | 07 |
| | (b) Explain C Tokens. | 04 |
| | (c) Explain break statement with examples. | 03 |
| Q.3 | (a) Write a “C” Program that reads number from 1 to 7 and accordingly it should print MONDAY to SUNDAY. | 07 |
| | (b) Explain Switch case with examples. | 04 |
| | (c) What is local and Global variable? Explain with examples. | 03 |
| Q.4 | (a) Write a C program check given string is pelindrom or not. | 07 |
| | (b) Explain while,do while and for loops with examples. | 04 |
| | (c) Explain scope and life time of variable. | 03 |
| Q.5 | (a) What is recursive function? Explain with example. | 07 |
| | (b) Write a function which accepts a string and returns the length of the string. | 04 |
| | (c) Show the use of the malloc() function. | 03 |
| Q. 6 | (a) Explain the difference between “call by reference” and “call by value” with suitable example | 07 |
| | (b) What is pointer? Clear it with examples and give its use. | 04 |
| | (c) Explain difference between Structure and Union. | 03 |
| Q.7 | (a) Explain the difference String functions used in C with suitable example | 07 |
| | (b) Explain showing proper syntax, following file operations:
(i) fprintf() (ii) fscanf() (iii) putc() (iv) getc() | 04 |
| | (c) List the different file management functions and explain various file modes. | 03 |
