

Code No: 51006

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year Examinations, December - 2017

COMPUTER PROGRAMMING AND DATA STRUCTURES

(Common to CE, EEE, ME, ECE, CSE, CHEM, EIE, IT, AE, BT, AME, MIE, PTM)

Time: 3 hours

Max. Marks: 75

Answer any five questions

All questions carry equal marks

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- 1.a) Explain Software Development Method.
- b) What is flowchart? What is the use of flowchart? [7+8]
- 2.a) Explain type identifiers in C.
- b) Write a short note operator precedence and order of evaluation. [7+8]
- 3.a) Write a note on scope of a variable.
- b) Explain various parameter passing mechanisms. [7+8]
- 4.a) Explain pointer to function in detail.
- b) Explain dynamic memory allocation. [7+8]
- 5.a) Distinguish between Structure and Union.
- b) Explain Nested structure with example. [7+8]
6. Explain the following:  
a) getchar()                      b) putchar()                      c) EOF [15]
7. Write a C program for sorting integers in ascending order using selection sort and explain with an example. [15]
8. Write a 'C' program to implement stack using linked list. [15]

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