

R09

Code No: 51006

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B.Tech I Year Examinations, December - 2018

COMPUTER PROGRAMMING AND DATA STRUCTURES

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

Time: 3 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

- 1.a) Define Algorithm? Write an algorithm to check whether a given number is
Palindrome or not.
- b) Explain the Computer Languages. [7+8]
- 2.a) Define Control Statement. Explain the Branching Control Statements.
- b) Explain about Operator Precedence and Associativity. [7+8]
- 3.a) Write in detail about the Static Storage Classes in C with an example.
- b) Write a program to perform Matrix Addition. [7+8]
- 4.a) What is Pointer? Write a program to implement pointer to pointer.
- b) List and Explain String Handling Functions in C. [7+8]
- 5.a) Explain Structures with an example.
- b) Write a C program to implement Unions. [7+8]
- 6.a) Write about various file modes.
- b) Explain about the file handling functions. [7+8]
- 7.a) Write a program to Linear Search method.
- b) Explain about Selection Sort with an example. [7+8]
- 8.a) What is Queue and explain the operations of it.
- b) Write a program to implement Stack. [7+8]

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