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Code No: 51006

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B.Tech I Year Examinations, June - 2015

COMPUTER PROGRAMMING AND DATA STRUCTURES

(Common to CE, EEE, ME, ECE, CSE, CHEM, EIE, BME, IT, MCT, ETM, MMT, AE, BT, AME, MIE, PTE, CEE)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Discuss about Computing Environments.
- b) Explain the process of Creating and Running the C Program. [7+8]
- 2.a) Write about Branching Control Statements with examples.
- b) Write a C Program to print all Perfect Numbers below 1000. [7+8]
3. Define Function and what are the Classifications of Functions explain them with an example? [15]
- 4.a) Write about Command Line Arguments.
- b) Write and explain a program for pointer to multi dimensional arrays. [7+8]
- 5.a) Define structure. How can we access the members of a structure using pointer, explain it with an example.
- b) Discuss about self referential structures. [7+8]
- 6.a) Differentiate between Text File and Binary File modes.
- b) Discuss about file status functioning. [7+8]
- 7.a) Explain the Linear Search with an example.
- b) Write a program that implements Quick Sort with an example. [7+8]
- 8.a) Explain the Queue operations with an example.
- b) Discuss the procedure for Conversion of Infix Expression to Postfix Expression. [7+8]

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