

Hall Ticket Number:

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Code No. : 31527 TS

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. (I.T.) III Year I-Semester Main & Backlog Examinations, December -2017**

**Finishing School - III: Technical Skills**

Time: 1½ hours

Max. Marks: 35

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (5 × 2 = 10 Marks)**

1. Distinguish between recursion and iteration.
2. Illustrate the limitation of multiple inheritance
3. What are the two ways to create a thread?
4. What is event handler?
5. Explain full binary tree and complete binary tree with example.

**Part-B (5 × 5 = 25 Marks)**

6. a) Explain array of pointers with an example. [2]  
b) Develop a simple code for binary search using function recursion in c programming language. [3]
7. a) Explain with an example the use of virtual base class. [2]  
b) What is Containership? How does it differ from inheritance? [3]
8. a) List any four methods of string class. [2]  
b) Distinguish between Final, Finally and Finalize in java. [3]
9. a) Distinguish between choice and list. [2]  
b) What are the different type of Layout managers used in Swing? [3]
10. a) Compute postfix expression for the infix expression  $A + B*(C+D)/F + D*E$ . [2]  
b) Show a procedure that uses a stack in order to reverse the elements of a circular queue which is stored in an array. [3]
11. a) Explain the purpose of the function `sprintf()`. [2]  
b) Build a function template for finding the minimum value contained in an array. [3]
12. Answer any *two* of the following:
  - a) Life cycle of thread [2½]
  - b) Interface in java [2½]
  - c) B – Tree [2½]

