

Code: R7311504

**R7**

B.Tech III Year I Semester (R07) Supplementary Examinations, May 2013

**SYSTEMS PROGRAMMING**

(Computer Science and Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 Describe about assembly language basics machine addressing. Explain data definition directives, addressing formats, com programs.
- 2 Explain the following:
  - (a) Loop and conditional jump instructions.
  - (b) Boolean operations.
  - (c) Shifting.
  - (d) Rotating.
- 3 What is the use of operations and table processing, searching, sorting, explain it briefly?
- 4 Briefly explain about macro working and linking, macro definition.
- 5 Describe about DOS interrupt 21 H and BIOS interrupt 16 H for keyboard input. Explain it.
- 6 Explain the following terms:
  - (a) Disk processing disk organization.
  - (b) File allocation table.
  - (c) File control block.
  - (d) Sequential reading of a disk file.
- 7
  - (a) Explain BIOS disk operations in detail.
  - (b) What is meant by program loader and program overlays, how does it can be implemented?
- 8 Explain the following terms:
  - (a) Loaders.
  - (b) Compile - and - go loaders.
  - (c) General loader schemes.
  - (d) Absolute.

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