Code: 9A15501

R09

B.Tech III Year I Semester (R09) Supplementary Examinations December 2015
SYSTEMS PROGRAMMING
(Computer Science and Systems Engineering)

Time: 3 hours   Max Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1   Define addressing mode. Explain in detail about different types of addressing modes in assembly
       language.

2   Explain about the following:
   (a) Boolean operations,
   (b) Two-Pass assembler.
   (c) JMP and Loop instructions.

3 (a) Explain about Table processing.
   (b) Discuss in detail, how the binary data will process and what methods are used in it?

4 (a) Explain briefly about processing string data.
   (b) Write a short note on processing binary data.

5   Describe about Disk storage in detail.

6 (a) Write a short note on:
          (i) The SEGMENT directive.
          (ii) Macro directives.
          (iii) Intra-segment calls.
   (b) Write an ALP that linking a C/C++ program to find out whether the given number is factorial or not.

7 (a) Explain about a Two-Pass algorithm and a Single Pass algorithm.
   (b) Explain about LOADERS.

8 (a) What is meant by compiler? Explain how syntactic units are recognized.
   (b) Explain about different phases of the compiler.

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