

Code No: **R41191**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

SYSTEMS PROGRAMMING
(Electronics and Computer Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 What is Finite State Machine? Explain in detail about states and transition of FSM with suitable example. [15]

- 2 What do you mean by System Programming? Explain the components of system programming. [15]

- 3 List and explain in detail different instruction format for IBM360/370 machine. Illustrate with suitable example. [15]

- 4 Explain in detail with a suitable example the formats and contents of data bases used in Assembler Design. [15]

- 5 a) Design a Micro Preprocessor with suitable example. [7]
 b) Explain about design of Macro processor for Single pass Assembler. [8]

- 6 a) Write about data bases used in Loaders. [7]
 b) Describe the design of Absolute Loader. [8]

- 7 Explain the following [15]
 a) Syntax Analysis
 b) Semantic Analysis

- 8 Discuss in detail about different Software Tools used for Program Development. [15]