

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
 - a) Syntax Analysis
 - b) Semantic Analysis [15]
- 8 Discuss in detail about different Software Tools used for Program Development. [15]