

Register Number:  
Name of the Candidate:

**B.Sc. DEGREE EXAMINATION, May 2015**

**(COMPUTER SCIENCE)**

**(THIRD YEAR)**

**(PART-III)**

**340: SYSTEM SOFTWARE**

Time: Three hours

Maximum: 100 marks

---

**SECTION-A**

**(8×5=40)**

**Answer any EIGHT questions**

1. Explain the operation of pass one assembler with a neat flowchart.
2. Write a symbol tables.
3. Describe the functions of macroprocessor.
4. Write on conditional assembly.
5. Explain the design of direct linking loader.
6. Discuss program overlays.
7. Describe various interrupts with few interrupt service routines.
8. Illustrate direct memory access with a neat sketch.
9. Discuss file systems in detail.
10. Explain how you can improve security of a system.

**SECTION-B**

**(3×20=60)**

**Answer any THREE questions**

11. What is system software? Describe the evolution of system software in detail.
12. Explain the program block with examples.
13. Describe the functions of a absolute loader comparing with bootstrap loader.
14. Write notes on:
  - a) Sequential Devices (10)
  - b) Critical Sections (10)
15. Discuss various directory management concepts in detail.

\*\*\*\*\*