

Register Number :

Name of the Candidate :

5 3 8 0

B.Sc. DEGREE EXAMINATION, 2013

(COMPUTER SCIENCE)

(THIRD YEAR)

(PART - III)

(PAPER - XVIII)

340. SYSTEM SOFTWARE

May]

[Time : 3 Hours

Maximum : 100 Marks

SECTION – A (8 × 5 = 40)

Answer any EIGHT questions.

ALL questions carry EQUAL marks.

1. What is system software? Discuss.
2. Write the process which takes place in assembler.
3. Discuss the issues of code generation.
4. Explain the basic macroprocessor functions in default.

Turn Over

5. Explain the concept of program relocation and linking.
6. With example explain the machine independent features of a loader.
7. What is spooling? Discuss.
8. Explain I/O Interrupts.
9. What are the operators to be performed on a directory?
10. Explain the general design principles for protection mechanism.

SECTION – B (3 × 20 = 60)

Answer any THREE questions.

ALL questions carry EQUAL marks.

11. Discuss the features to be considered during the design of a two pass assembler.
12. Explain the method of compilation of any two expression of your choice.
13. Explain different loading schemes with their advantages on limitations.

14. What is Direct Memory Access? Explain it with an example.
15. Discuss various scheduling Algorithms in detail.