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VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Imp.) Examination, May 2018 CORE COURSE IN COMPUTER SCIENCE 6B13CSC: System Software (2014 Admn. Onwards)

		(2011/Idillill Official)
Γim	e:	3 Hours Marks : 40
3		SECTION - A
1.	Or	e word answer. (8×0.5=4)
	a)	When a computer is first turned on a special type of absolute loader called is executed.
	b)	is generated as output of scanning phase (Lexical Analyzer) in a compiler.
	c)	The assembler in first pass reads the program to collect symbols defined with offsets in a table
	d)	After compilation of the program the operating system of computer activates
	e)	type of errors are not detected by assemblers.
	f)	Compiler should report the presence of in the source program, in translation process.
	g)	A top down parser generates derivation.
	h)	is the most general phase structured grammar.
		SECTION - B
W	rite	short notes on any seven of the following questions. (7×2=14)
2.	W	nat are the three different records used in an assembler?
3.	W	nat is a literal? What is the use of LTORG directive?

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- 4. What are the basic function of loaders?
- 5. Define direct linking loader?
- 6. What do you mean by formal language?
- 7. Define Code optimization and explain its phases.
- 8. Explain basic functions of an assembler.
- Explain compile and go loader.
- 10. What do you mean by forward references in an assembler?
- 11. What do you mean by Bootstrap Loader?

SECTION - C

Answer any four of the following questions.

 $(4 \times 3 = 12)$

- 12. What are the two different techniques used for relocation in a loader?
- 13. Explain linking loader and linkage editor. What are their differences?
- 14. Explain the lexical phase of compiler.
- 15. Explain the properties of LR parser and its classification.
- 16. Explain ambiguity of grammatical statements.
- 17. Explain overlay structure in detail.

SECTION - D

Answer any two of the following questions.

 $(2 \times 5 = 10)$

- 18. Explain different ways of intermediate code representation? Explain advantages of intermediate code representation.
- 19. Explain in detail Two pass assembler algorithm. Explain the data structures used.
- 20. What do you mean by dynamic Linking? Explain how it is performed.
- 21. What do you mean by parsing? Explain the categories with example.