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VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.) Examination, April 2021 (2014 – 2018 Admissions) CORE COURSE IN COMPUTER SCIENCE 6B13CSC: System Software

Time: 3 Hours

1.

Max. Marks: 40

SECTION - A

Or	ne word answer: (0.5×8=4)
a)	is a rule of grammar which is also known as rewriting rule.
b)	eliminates the need to memorize numeric operation code.
c)	is a software which bridges a specification or execution gap.
d)	Intermediate code generation phase gets input from
e)	is a program that converts assembly language into machine code.
f)	is the semantic gap between two specifications of the same task.
g)	is also known as Parsing.
h)	is the gap between the semantics of programs written in different programming languages.
	SECTION B

Write short notes on any seven of the following questions:

 $(7 \times 2 = 14)$

- 2. Define Language Processor.
- 3. What is intermediate code? Explain its advantages.



- 4. What is IC?
- 5. Define Grammar.
- 6. What is the role of OPTAB in an assembler?
- 7. Define load and go assembler.
- 8. What is meant by Code Optimization?
- 9. What are live variables?
- 10. What is dynamic linking?
- 11. Define System Software.
- 12. What is an absolute loader?
- 13. What is a parse tree?
- 14. What is forward reference?
- 15. How is macro defined?

SECTION - C

Answer any four of the following questions:

 $(4 \times 3 = 12)$

- 16. Compare machine and assembly languages.
- 17. Explain compilation of an expression.
- 18. Differentiate between direct linking and dynamic linking.
- 19. What is meant by ambiguity in grammar specification?
- 20. Which are the different types of Grammar?
- 21. Which are the different assembly language statements?
- 22. Explain Scanning and Parsing.
- 23. Which are the basic elements of assembly language programming?



SECTION - D

Answer any two of the following questions:

 $(2 \times 5 = 10)$

- 24. What is assembler? Explain the design specification of an assembler.
- 25. Explain in detail about loaders and linkers.
- 26. Define Language Processing and explain Language Processing Activities.
- 27. What is a Compiler ? Explain in detail about compiler and its phases.
- 28. Explain Derivation, Reduction and Parse tree in detail with example.
- 29. Define Language Processing and explain the phases and passes of a Language Processor.