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First Semester B.Sc. Degree (CCSS - Reg./Supple./Improv.) Examination, November 2015 COMPLEMENTARY COURSE IN COMPUTER SCIENCE 1C01 CSC: Fundamentals of Computers and Programming Languages (2014 Admn. Onwards)

Time: 3 Hours Max. Marks: 32

SECTION - A

	OLO HOIV—A
Or	ne word answer: (6×0.5=3)
a)	The language that the computer can understand and execute is called
b)	What will be the decimal equivalent of the binary number 10000?
c)	topology is the simplest and cheapest topology to implement in small networks.
d)	The gray code equivalent of (1011) ₂ is
e)	is used to convert high level to machine level.
f)	In mode, the communication is unidirectional.
	SECTION - B

Write short notes on any five of the following questions:

 $(5 \times 2 = 10)$

- 2. Explain top-down analysis.
- 3. Write any two characteristics of structured programming.
- 4. Explain the secondary memory.
- 5. What is twisted pair cable?
- 6. What is Cache Memory?

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- 7. What is System Software?
- 8. Mention different network services.
- 9. Define Algorithm.

SECTION-C

Answer any three of the following questions:

 $(3 \times 3 = 9)$

- 10. Convert the hexadecimal numbers to equivalent decimal numbers :
 - a) 5C
 - b) 76
 - c) F9
- 11. Explain any three network topologies.
- 12. Discuss three basic program control structures with suitable examples.
- 13. Explain multiprogramming techniques.
- 14. Explain the characteristics of a good program.

SECTION-D

Write an essay on any two of the following questions.

 $(2 \times 5 = 10)$

- 15. Discuss various types of networks topologies in computer network. Also discuss various advantages and disadvantages of each topology.
- 16. With a neat diagram explain the cache memory in detail.
- 17. With a suitable illustration, explain
 - a) BCD
 - b) ASCII
 - c) Gray Code
- 18. Write a short note on various types of Operating Systems.