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K15U 0576

Reg. No. :

Name :

**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

1. **One 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 :

(5×2=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 :

(3×3=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.

(2×5=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.
