M 7840

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (CCSS – Regular) Examination, November 2014
(2014 Admn.)
COMPLEMENTARY COURSE IN COMPUTER SCIENCE
1C01 CSC : Fundamentals of Computers and Programming Languages

Time : 3 Hours Max. Marks : 32

SECTION – A

1. **One** word answer : **(6×0.5=3)**
   a) _____ is non volatile memory.
   b) A system program that translates and executes an instruction simultaneously is _____
   c) _____ be the binary equivalent of hexadecimal number 8.
   d) Optical fiber uses _____ to transmit information.
   e) To execute two or more of a single users tasks concurrently is known as _____
   f) In _____ transmission mode devices can transmit and receive simultaneously.

SECTION – B

Write short notes on **any five** of the following questions. **(5×2=10)**

2. Expand SDRAM and EPROM.
3. What is BCD system ?
4. Explain the two major categories of transmission media.
5. What is the purpose of cladding in optical fiber communication ?
6. What is Cache Memory ?
7. What is System Software ?
8. Differentiate Compiler and Interpreter.
9. What is top-down analysis ?

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SECTION – C

Answer **any three** of the following questions. **(3×3=9)**

10. Discuss Serial transmission and Parallel transmission with suitable illustration.
11. What are the advantages of bus topology ?
12. Convert the hexadecimal numbers to equivalent binary numbers :
    a) 5D
    b) A9
    c) 5BC.
13. List any three basic functions of an Operating System.
14. Mention the objectives of structured programming.

SECTION – D

Write an essay on **any two** of the following questions. **(2×5=10)**

15. Briefly discuss the different generations of computers.
16. Explain the different number systems in detail.
17. With a neat diagram explain (a) Coaxial cable (b) Optic fiber cable.
18. Write a short note on various types of Operating Systems.