

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

01385

June, 2018

**CIT-001 : FUNDAMENTALS OF COMPUTER
SYSTEMS**

Time : 2 hours

Maximum Marks : 50

(Weightage : 75%)

Note : *Question number 1 is compulsory. Attempt any four questions from the remaining.*

1. (a) What is the difference between information security and computer security ? 3
- (b) Explain the process of booting of a PC. 3
- (c) What are the different modes of data transmission ? Discuss briefly. 4

2. (a) Define network and write the classification of networks with illustrations. 8
- (b) Write the function of control unit. 2

3. (a) What is social engineering ? Explain various types of social engineering with real life example. 8
- (b) Differentiate between internal modem and external modem. 2

4. (a) What do you mean by wireless transmission ? Explain radio waves, microwaves and infrared transmission with an example of each. 8
- (b) Define algorithm and explain the need of an algorithm in problem solving. 2
5. Sheena has to attend at least 70% of practical classes for Networking to be eligible to appear in the examination. There are in total, 60 practical classes for Network programming. She has already attended 25 out of 30 classes held so far. Find at least how many classes are still to be attended by Sheena to be eligible for appearing in the examination. Draw the flowchart and write a C program for the above problem. 10
6. (a) What are operators and punctuations in C ? Explain with example. 7
- (b) What is an optical memory ? Explain briefly. 3
7. (a) What is a utility program ? Explain its functions. 4
- (b) Explain how you can protect your computer from viruses. 2
- (c) Explain $CPU = CU + ALU$
 where CPU = Central Processing Unit
 CU = Control Unit
 ALU = Arithmetic Logic Unit 4
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