

**CERTIFICATE IN INFORMATION  
TECHNOLOGY (CIT)**

**Term-End Examination**

00560 December, 2017

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

*Time : 2 hours*

*Maximum Marks : 50*

*(Weightage : 75%)*

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

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1. (a) What is an accumulator ? Explain its function. 3
- (b) What is the use of a multimedia graphics tablet ? 2
- (c) Explain token in C. 1
- (d) Write the advantages of Hybrid Network topology. 2
- (e) What is the difference between .exe and .com files ? 2
  
2. (a) Explain serial transmission and parallel transmission with suitable examples. 8
- (b) Define information security. 2

3. (a) Differentiate between symmetric encryption and public-key encryption. 4
- (b) What is the purpose of metallic wrapping in coaxial cables ? 2
- (c) Write the major advantages of coaxial cables compared to twisted pair cables. 4
4. (a) What is Real Time Operating System ? Explain with suitable example. 5
- (b) Explain Database Development Life Cycle with example. 5
5. Draw a flow chart and write a C program to find the area of a circle. 10
6. What is semiconductor memory ? Explain different types of main memory with illustrations. 10
7. (a) Define the terms Network topology and Physical topology. 2
- (b) What is OSI model ? Explain various layers of it. 8
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