PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2018 - 19 Examination

Semester: 1   Date: 18/05/2019
Subject Code: 03108102   Time: 02:00 pm to 04:30 pm
Subject Name: Information & Communication Technology   Total Marks: 60

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (Fill in the blanks, one word answer, MCQ-not more than Five in case of   **(15)**
MCQ) (All are compulsory) (Each of one mark)
1.The two types of number system are _____ and _____
2._____ holds the address of the active memory location.
3._____ and _____ are the two types of processors.
4._____ is an electromechanical device that accepts data from computer and translate them into a
   form suitable for use by outside world.
5. The term _____ refers to the logic of the program.
6.The full form of ASCII is _____
7.The two types of RAM chips are _____ and _____
8._____ Software is a set of one or more programs, which solves a specific problem, or does a
   specific task.
9._____ is a translator program that translates a high level language program into equivalent
   machine language program .
 10. _____ layer sets up a logical communication path between two nodes.
11.Line access and avoidance of collision are the main functions of :
      (1) wide area networks   (2) network protocols
      (3) the monitor   (4) CPU
12. LAN stands for
      (1) Live area network   (2) Local and national
      (3) Local area network   (4) Large area network
13.Which of the following is not a computer language
      (1)UNIX   (2) COBOL
      (3) PASCAL   (4) FORTRAN
14.A Keyboard has a atleast :
      (1) 101 keys   (2) 201 keys
      (3) 301 keys   (4) 401 keys
15.Which one of the following is not a network device
      (1) Hub   (2) CPU
      (3)Router   (4)Switch

Q.2 Answer the following questions. (Attempt any three)   **(15)**
A) List and explain some important characteristics of a computer.
B) Explain about computer organisation with neat diagram.
C) Explain about types of memory.
D) Write short note on flow charts and algorithm.

Q.3 A) Explain in detail about types of hardware and software.   **(07)**

B) Explain in detail about the data transmission media.   **(08)**
OR
B) Explain in detail about the types of network.   **(08)**

Q.4 A) Explain in detail about classification of secondary storage devices.   **(07)**
OR
A) Draw the processor and memory architecture of a computer system. Explain about the components in   **(07)**
   detail.
B) Explain the various functionality of the different layers in OS1 model.   **(08)**