Seat No:_____   Enrollment No:_____

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/IMCA Winter 2017 – 18 Examination

Semester: 3   Date: 21/12/2017
Subject Code: 05101201/05301201   Time: 02:00 pm to 05:00 pm
Subject Name: Business Information System   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 Answer the followings.
  A. Write short notes.   **(05)**
    1. What is information explain with example?
    2. What is a voice mail?
    3. Define a System?
    4. What is DBMS?
    5. Expand the abbreviations INMANS and ACPAYS?
  B. Multiple choice type questions (Each of 01 marks)   **(07)**
    1. Fiber optics posses following properties
     [A] Immune electromagnetic interference
     [B] Very less signal attenuation
     [C] Very hard to tap
     [D] All of the mentioned
    2. The following are functions of a DBMS except _____ .
      [A] creating and processing forms
      [B] creating databases
      [C] processing data
      [D] administrating databases
    3. Which of this is not a guided media?
      [A] Fiber optical cable
      [B] Coaxial cable
      [C] Wireless LAN
      [D] Copper wire
    4. A relational database consists of a collection of
      [A] Tables
      [B] Fields
      [C] Records
      [D] Keys
    5. Physical or logical arrangement of network is
      [A] Topology
      [B] Routing
      [C] Networking
      [D] None of the mentioned
    6. The term _____ is used to refer to a row.
      [A] Attribute
      [B] Tuple
      [C] Field
      [D] Instance
    7. Match the following (Each of 01 marks)   **[3]**
      (a) Simplex Communication   (i) Bidirectional and simultaneous
      (b) Half duplex Communication   (ii) Unidirectional
      (c) Full duplex Communication   (iii) Bidirectional but not simultaneous

Q.2 Answer the followings [Any Five] (15)
    1. Differentiate between LAN and WAN technologies?
    2. Enlist and explain attributes that add value to the quality of information?
    3. Explain synchronous and asynchronous data transmission techniques?
    4. Explain Information systems as utilized by different levels of management?
    5. Explain Closed loop and Open loop systems with example?
    6. Explain the basic activities for information generation?

Q.3 Answer the following. [Any three] (15)
    1. Give the features, advantages and disadvantages of star topology?
    2. List different file organization techniques and explain any two techniques with diagram?
    3. Explain the office automation systems?
    4. Explain Object Oriented and Entity Relationship data models?

Q.4 Answer the following.
  A. Explain Operation support systems? (5)
  B. Explain in depth the Inventory management systems? (10)
<div align="center">**OR**</div>
  B. List and explain the different types of databases? (10)