

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**  
**PARUL INSTITUTE OF COMPUTER APPLICATION**  
**BCA/IMCA 2017-18 Mid Semester Examination**

Semester: 3  
 Subject Code: 05101252/05301252  
 Subject Name: Business Information System

Date: 05/09/2018  
 Time: 10:30-11:30  
 Total Marks: 40

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

<b>Q.1</b>	Answer the following.	<b>[10]</b>
<b>(a)</b>	(i) What is a system? (ii) Define Business Information System? (iii) Expand the following: TPS, EIS, DSS and ICT?	<b>[3]</b>
<b>(b)</b>	Objective type/MCQs/True-False/Fill in blanks (7 questions of 1 mark each) (i) Which of the following are the properties of entities? A) Groups                      B) tables                      C) Attributes                      D) Both A and B (ii) Key to represent relation between tables is called _____ A) primary key                      B) Super key                      C) Foreign Key                      D) None of these (iii) The term attribute refers to a _____ of a table. (A) Record                      (B) Column                      (C) Tuple                      (D) Key (iv) The term _____ is used to refer to a row. A) Attribute                      B) Tuple                      C) Field                      D) Instance (v) A _____ in a table represents a relationship among a set of values. A) Column                      B) Key                      C) Row                      D) Entry (vi) Which of the following gives a logical structure of the database graphically? A) Entity-relationship diagram                      B) Entity diagram C) Database diagram                      D) Architectural representation model (vii) The following are functions of a DBMS except _____. A) creating and processing forms                      B) creating databases C) processing data                      D) administrating databases	<b>[7]</b>
<b>Q.2</b>	Answer the following.	<b>[10]</b>
<b>(a)</b>	i. Give difference between Probabilistic and Deterministic System? ii. Differentiate between data and information?	<b>[4]</b>



(b)	<b>Answer the following</b> i. List and explain the importance of Legal, financial and Insurance business files? ii. Explain the categories of information?	[6]
Q.3	<b>Attempt any TWO.</b> 1. Discuss about the focus of Business Information Systems in the past? 2. Explain the process of information generation with an example? 3. Explain in detail the levels of management with a diagram?	[10] [5] [5] [5]
Q.4	<b>Answer the following.</b> (a) List the different file organization methods and explain any two methods of file organization in details with diagram?	[10] [5]
(b)	List and explain the different types of Data storage media and Storage Devices?	[5]
	OR	
(b)	Construct and explain an ER diagram for a Banking System. Clearly indicate the entities, relationships, cardinality and the key constraints.	[5]