Seat No:_____   Enrollment No:_____

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/ IMCA , Winter 2018-19 Examination

Semester: 1   Date: 22/10/2018
Subject Code: 05101101/05301101   Time: 10:30am to 1:00pm
Subject Name: Fundamentals of Computer & PC Software   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. EEPROM stand for.
   2. What is computer?
   3. Which storage media is sequentially accessed and process?
   4. What is BCD ?write the BCD code for Decimal number 2405
   5. List out different types of number system representation in computer and what is their base value?

B.   Multiple choice type questions/ Give the sentence true or false.(Each of 01 marks)   (10)
   1. Formula in excel start with _____
      (a) +   (b) –   (c) =   (d) %
   2. Reflected binary code is also known as
      (a) BCD code
      (b) Binary code
      (c) ASCII code
      (d) Gray Code
   3. Which of the following printer use mirror to send beam on a surface?
      A Laser Printer B. Ink Jet Printer C. chain Printer D. Daisy Wheel Printer
   4. Which numbering system uses numbers andletters as symbols?
      A. Decimal B. Binary C. Octal D. hexadecimal
   5. Cache memory is implemented using
   (a) DRAM (b) SRAM (c) PROM (d) EPROM
   6. The excess-3 code for 597 is given by
      (A) 100011001010
      (B) 100010100111
      (C) 010110010111
      (D) 010110101101
   7. Which electronic components are used in Second Generation Computers?
      A. Transistor   B. VacumeTubleC. Integrated Circuit D. Microprocessor
   8. What is an extension of file in Microsoft word 2003?
   A. .docx B.doc C. .txt D. .Word
   9. Compiler,Interperter and assembler are an example of_____
      A. Application Software B.System software C.Firmware D.Non of mentioned.
   10. In which of the following complement's system overflow bit is simply discarded?
      A. 1's Complements B.2's Complements C. Both A &B   D. None of Above

Q.2   Answer the followings.
   1.Write a difference between High level language and Low Level Language
   2. Draw Diagram of NAND gate as Universal Gate
   3. Explain any one Application of Computer.   (15)
   4. Explain SR flip flop.
   5. Explain different Types of Networks LAN,MAN and WAN.

Q.3 **Answer the following. (Any Three)**   **(15)**

    1. Write a difference between Impact printer and Non-Impact printer

    2. What is secondary memory? Explain working mechanism of any one secondary memory?

    3 With Block diagram explain computer architecture.

    4. Write a sort note on Multiplexer and De-Multiplexer.

Q.4 **Answer the following.**

A. Write a sort note on Characteristics of Computer.   **(05)**

B. **Do as directed**

    1. 1100101/101

    2. $(1101011)_2 = (?)_{10}$

    3. $(1715)_{10} = (?)_2$ **(10)**

    4. 1010*1001

    5. 1001001-10111

OR

B. Explain logic gates AND,OR,NOT,NOR,NAND,XOR with block diagram and truth table.   **(10)**