

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

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

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**  
**Parul Institute of Computer Application**  
**BCA-2018-19 Mid Term Examination**

**Semester: 1**  
**Subject Code: 05101101/05301101**  
**Subject Name: Fundamentals of Computer & PC Software**

**Date: 5/09/2018**  
**Time: 10:00 to 12:00**  
**Total Marks: 40**

**Instructions:**

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

**Q.1(a) Answer the following Questions. [10]**

1. List out different types of number system representation in computer and what is their base value? [3]
2. What is computer?
3. What is System Software ?list out name of system software

**Q.1(b) Answer the following Questions. [7]**

1. Which of the following can be kept as 2<sup>nd</sup> Generation Programming Language?  
A. Assembly Language B. Machine Language C. C language D. SQL
2. Which of the following recognition technology used with bank cheque?  
A. OMR B. OCR. C. MICR D. BCR
3. The basic architecture of computer was developed by  
A. John Von Neumann B.Charles Babbage C. Blaise Pascal D.Garden Moore
4. The BCD number for decimal 347 is \_\_\_\_\_.  
A. 1100 1011 1000 B. 0011 0100 0111 C. 0011 0100 0001 D. 1100 1011 0110
5. OMR stand for \_\_\_\_\_
6. A worksheet contains \_\_\_\_\_ rows and \_\_\_\_\_ columns in excel 2007  
A. 65536,256 B. 1048576, 16384 C. 32767,253 D. None of Above
7. The brain of any computer system is  
A. ALU B. Memory C. CPU D. Control unit

**Q.2**

**(a) Answer the following Question [10]**

1. Do subtraction using 2's complements method 110001-111100 [4]
2. Write differences between High level and Low level language.

**(b) Answer the following Question [6]**

1. What is input device? Explain any one input device.
2. Explain any one application of computer in detail.

**Q.3 Attempt any TWO.**

**[10]**

- 1 Explain input device MICR, OMR, OCR.
- 2 Write a short note on second, third and fourth Generations of computer.
- 3 Convert the following Number system  
A.  $(1715)_{10} = (?)_2$  B.  $(1101011)_2 = (?)_{10}$  C.  $(6751)_8 = (?)_2$

**Q.4 Answer the following.**

**[10]**

- (a) Explain characteristics of computer. **[5]**
- (b) With the help of Block Diagram explain the Basic Organization of computer system. **[5]**

**OR**

(b) Get the result after following Binary operations

**[5]**

- A.  $1010 * 1001$  B.  $1100101 / 101$  C.  $11001 + 10011$

***All the Best***