SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)
Re-accredited by NAAC with 'A' Grade

Institute: (0301)SYMBIOSIS INSTITUTE OF COMPUTER STUDIES & RESEARCH, PUNE

Programme: (030122) BACHELOR OF BUSINESS ADMINISTRATION (INFORMATION TECHNOLOGY)

Batch: 2015-18,2016-19,2017-20
Semester: I
Course: Computer Fundamentals
Course Code: 0301220103

Date: 11/04/2018
Day: Wednesday

Maximum Marks: 30
Time: 09:30 am - 10:30 am

I. **Answer all questions. 2 Marks each x 3= 6 Marks**

a. Mention any two features of "First Generation" computers.

b. Represent $(-121)_{10}$ and $(+25)_{10}$ using 2's complement method. Use 8 bit representation

c. What is an Interface? Why is it required?

II. **Answer any Four questions 6 marks each x 4 =24 Marks**

a. Do as directed

i. Convert the binary number $(10111001)_2 = (\ ?\ )_{16} = (?)_8$ (2 marks)

ii. Convert the binary number $(10101010)_2$ to decimal number (1 Mark)

iii. $(32)_{16} + (64)_8 = (\ ?\ )_2$ Do the addition using binary numbers (3 marks)

b. Define Memory capacity, Memory Access Time, Memory access type.

c. Draw a neat functional block diagram of computer system and explain working of each block.

d. Name different input devices and explain working of any one.

e. Bring out any three differences between system software and application software.

****