

**I.M.C.A. SEM-I (2014 Course) CBCS : SUMMER - 2019**  
**SUBJECT : FUNDAMENTALS OF IT**

Day : Monday  
Date : 15/04/2019

Time : 02.00 PM TO 05.00 PM  
Max. Marks : 100

S-2019-2113

**N.B.:**

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
- 2) Answers to both the sections should be written in **SAME** answer books.
- 3) Figures to the right indicate **FULL** marks.

**SECTION – I**

- Q.1** What is computer? Explain applications of computer in various sector. [15]
- Q.2** Explain in detail various input and output devices of computer system. [15]
- Q.3** Define Software. Explain in detail system software with examples. [15]
- Q.4** What is operating system? Explain in detail batch processing operating system and multiprogramming operating system. [15]
- Q.5** Explain Assembly level language of computer system with proper example. [15]
- Q.6** Differentiate between following: [15]  
a) Primary storage and Secondary storage  
b) LAN and WAN  
c) Compiler and interpreter
- Q.7** Write short notes on **ANY THREE** of the following: [15]  
a) Positional Number System  
b) Modem  
c) Computer Protocols  
d) Database Management System

**SECTION – II**

- Q.8** Convert the following: [20]  
a)  $(10101)_2 = (?)_8$       b)  $(720)_8 = (?)_2$   
c)  $(A12)_{16} = (?)_8$       d)  $(1101)_{10} = (?)_{16}$
- Q.9** What are different types of file organization? Explain in detail. [20]
- Q.10** a) XYZ college wants to design computer network in their campus. Suggest an appropriate network type and justify. [10]  
b) Explain in detail various data transmission medias. [10]