

**S.D.E.**

**B.C.A. (2004 COURSE SEM- I : SUMMER - 2018  
SUBJECT : FUNDAMENTALS OF INFORMATION TECHNOLOGY**

Day : **Monday**  
Date : **28/05/2018**

**S-2018-4338**

Time : **02.00 PM TO 05.00 PM**  
Max. Marks : 80

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**N.B.**

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

- Q.1** What is an output device? List all output devices and explain any two output devices. (10)
- Q.2** What are two main components of CPU of computer system? List the main functions of each component. (10)
- Q.3** Convert the following numbers to decimal: (10)  
i)  $(2B)_{16}$  ii)  $(110110)_2$  iii)  $(2576)_6$  iv)  $(92D)_{16}$  v)  $(127)_8$
- Q.4** What is disk storage? Explain the following terms in context of disk storage. (10)  
i) Access Time ii) Latency iii) Seek time iv) Transfer rate
- Q.5** What is a random access storage device? Write examples of few applications for which such storage devices are suitable. (10)
- Q.6** What is an optical disk? How are data recorded / read from an optical disk drive? List typical uses of optical disk drive. (10)
- Q.7** Define software. What are different types of software. (10)

**SECTION – II**

- Q.8** What is magnetic tape? Explain how data are stored and organized on a magnetic disk. (15)
- Q.9** What is meant by Operating System? Explain the main function of Operating System. (15)
- Q.10** Write short notes on any **FOUR** of the following: (15)  
a) Network Topologies  
b) Multi Programming vs multiprocessing  
c) CD ROM  
d) Storage hierarchy  
e) Telnet

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